

# TEXAS MOSQUITO CONTROL ASSOCIATION NEWSLETTER

**Volume 41**

**January**

**2021**



**Treehole in an Arizona Ash. Photo: William Sames**

**Editor – William Sames**

**Contributors – Greg Marciniak, Mike Nichols, Dr. Jason Pitts**

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**About the Cover:** Some mosquito species primarily develop in treeholes. This image of a treehole in an Arizona Ash was created in a public park in Eagle Pass, Maverick County. Ever wonder what species may be in treeholes at this time of the year? Collect some samples, identify them, send the results to me, and I will post them in the May newsletter. Photo by William Sames IV.



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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>Greg Marciniak, Chair</b>	M. Nichols, M. Johnsen, 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, W. Sames, M. Wise-Valdez

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

<b>Auditing</b>	<b>VACANT, 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, S. Peper
<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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**Greg Marciniak**

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

Happy New Year everybody! Hopefully, it will be better than 2020. COVID 19 wreaked havoc in Texas and across the country. It caused the cancellation of the LMCA-TMCA combined meeting we had scheduled for last December. Instead, we held a virtual business meeting, and I think over 50 people participated. We accomplished a lot, not the least of which was the election of the 2021 Board of Directors. As is our custom, most board members moved up one spot in the board hierarchy. Past-president Mike Nichols rotated off the board; Patrick Prather volunteered to move from the 2-year director track to the 6-year track and is now Secretary; Sonja Swiger joined the board on the 2-year director track. She also set up the virtual business meeting. Thank-you Sonja for a job well done! In line with preventing COVID in our membership, the Spring Workshop is cancelled. However, instead of the workshop, Dr. Sonja Swiger with assistance from the

TMCA will provide a virtual CEU training session in April. I know many of you have COVID 19 duties in addition to your mosquito control duties, but hopefully you can squeeze in the necessary winter maintenance of your traps and spray units so you will be ready to protect the citizens of Texas from the blood thirsty hordes.

## **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. There are 4 issues per year with each issue coming out shortly after the quarterly Board of Directors meeting. Newsletters are published in January, May, August, and November. Photos and mosquito related humor are also welcomed. Consider submitting artwork 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 1-5 March 2021 as a **Virtual Meeting**. 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).

## **TMCA Dues – Please Pay**

Normally dues are paid at the TMCA Annual Meeting or Spring Workshop, but with COVID travel restrictions those events were cancelled. Please contact Greg Marciniak for payment options. Greg's contact information and the membership form is the last page of this newsletter.



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## **Incursion and establishment of the Old World arbovirus vector *Aedes (Fredwardsius) vittatus* (Bigot, 1861) in the Americas**

Yes, another mosquito species jumped the Atlantic Ocean and has started an invasion of the Americas. This mosquito has NOT been found in Texas, but it is circulating in the Caribbean Islands and has the potential to spread into Florida, Texas, or another Gulf Coast state. Unfortunately, this species is an arbovirus vector and is capable of transmitting several diseases: XXXXXXXX. The only good thing about this species appears to be its distinct morphology and hence it will be fairly easy to identify.

If you would like to read the original article, the free PDF article is at: [Incursion and establishment of the Old World arbovirus vector \*Aedes \(Fredwardsius\) vittatus\* \(Bigot, 1861\) in the Americas - ScienceDirect](#).

### **AMCA Meeting – Dallas 2024!**

The TMCA Board knew Texas was being considered as a meeting place for the 2024 American Mosquito Control Association, but no one had received the results. Mike Nichols saw the notice in a recent AMCA publication, so Hey! Dallas, Texas will be site for this meeting! The meeting normally takes place in late February or early March, and the TMCA provides volunteers to help at the registration desk and with other activities. More than likely, COVID will be in our forgotten past and this will be an in-person meeting. Past AMCA meetings in Dallas have been exceptionally good and I anticipate that this one will continue that trend. More to follow!

### **Spring Workshop Canceled**

With COVID still circulating, the TMCA Board of Directors cancelled the 2021 Spring Workshop. However, instead of the workshop, Dr. Sonja Swiger with assistance from the TMCA will provide a virtual CEU training session on Wednesday, April 7, 2021. This session will result in 5 CEU credits.

If COVID concerns are minimal, the Annual TMCA meeting will be face-to-face in or about Austin. The committee is looking for venues and potential dates. More information to follow in the May and August newsletters. Yes, it would be fantastic to have a real-life meeting!

### **Results of Annual Business Meeting**

**New Board Members** – The membership voted to approve the nominations for the October 2020 – October 2021 TMCA Board. These results are reflected in the Board chart on page 4. We welcome Dr. Sonja Swiger as the new Director. Patrick Prather took on more responsibility and moved from the Director to Secretary.

**Approved changes to Constitution and By-Laws** – The membership voted to approve all changes to the TMCA Constitution and By-Laws. An updated copy of this document is the last article in this newsletter.



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## Dr. Jimmy K. Olson Scholarship Winner

### Jose Juarez of Texas A&M University at College Station –



**Jose Juarez at the peak of the Lost Mine Trail, Big Bend National Park. Behind him is the Chihuahuan Desert.**

Jose Juarez, a Ph.D. candidate, in Dr. Gabriel Hamer's laboratory at Texas A&M University, College Station was the recipient of the 2020 Jimmy K. Olson Graduate Scholarship. His dissertation is titled: "An eco-bio-social approach for the surveillance and control of *Aedes aegypti* in the Lower Rio Grande Valley, Texas" and focuses on identifying ecological, biological and socio-cultural factors that modulate *Ae. aegypti* disease risk transmission. It also evaluates the efficacy of vector surveillance and control tools in the Lower Rio Grande Valley (LRGV), Texas. A rigorous understanding of how the biological, ecological and socio-cultural practices modulate vector-host interactions around the globe is critical for developing effective intervention strategies.

These concepts are widely known; however, few studies have efficiently addressed these issues in the continental United States (US) where *Aedes* vector-borne disease transmission has occurred. The LRGV of South Texas is one of the few places where vector-borne disease transmission of dengue, chikungunya and Zika has been recorded. To address these issues, he worked with the counties of Hidalgo and Cameron, and the cities of McAllen and Weslaco between July 2017 to December 2018 and will help in the last evaluation trial of 2021. During this time, they have evaluated two novel traps (Autocidal Gravid Ovitrap (AGO) and Autodissemination Station (ADS)) for the control of *Ae. aegypti* under local settings. Studied the natural dispersal of *Ae. aegypti* in this region and assessed the effects of community engagement in low-income communities called "colonias" for mosquito control activities. The outcome of this doctoral dissertation will help guide local vector control activities, provide evidence that stable isotope mark-capture study design is appropriate for *Ae. aegypti* research elsewhere in the world and determine the ability of an AGO and ADS intervention to suppress vector populations in the LRGV.

When searching for a PhD program he wanted to work in a project that not only made him grow as a scientist but as a person as well. The different projects Dr. Hamer has on the LRGV was of prime interest to him, especially the work with middle and low-income communities. He wanted to work in an area where funds were limited or non-existent. His hope is that the results of his work may help the cities and counties save resources, guide vector control activities and ultimately better the life of residents within the LRGV. Vector control is an expensive and vital endeavor which is many times cast aside as non-useful or wasteful. However, this is the first line of defense against disease transmission that usually affect the poorest communities.

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## Baylor University Receives AMCA Grant for Mosquito Research

Dr. Jason Pitts, Assistant Professor of Biology, Baylor University announced that his lab received a 1-year grant from the American Mosquito Control Association entitled, “Modified Attractive Toxic Sugar Baits for Aedes Vectors”. The goals of this study include testing compounds that are generally recognized as safe (GRAS) as potential life-shortening components of bait stations and developing odor blends that are highly attractive for Aedes species. Taken together, the aims of the proposal should help reduce harmful effects on non-target species while also circumventing insecticide resistance mechanisms. Field trials of bait stations will be conducted in collaboration with Harris County Public Health – Vector Control Division. Dr. Pitts leads the Laboratory of Arthropod Sensory Biology and Neuroethology. For more information about this lab, go to [Pitts Lab | Laboratory of Arthropod Sensory Biology and Neuroethology \(baylor.edu\)](#).

### Legislative Activities - Mike Nichols

**1. Pesticide related information on the Monarch Butterfly listing decision.** On December 15, 2020, the U.S. Fish and Wildlife Service announced that listing the monarch butterfly as endangered or threatened under the Endangered Species Act is warranted but precluded by higher priority listing actions. The monarch butterfly is now a candidate under the Endangered Species Act.

**2. EPA Takes Action to Investigate PFAS Contamination.** The U.S. Environmental Protection Agency (EPA) determined that fluorinated high-density polyethylene (HDPE) containers used to store a mosquito control adulticiding product contained PFAS (per- and polyfluoroalkyl substances) compounds that were leaching into the pesticide product. PFAS have been used in a variety of industrial, agricultural, military, and commercial product applications, including firefighting foams, stain- or water-repellent fabric coatings and non-stick cookware. The same properties that made them attractive for these uses also make them persistent in the environment. According to the EPA’s webpage, fluorinated HDPE containers are treated inside and outside through fluorination, a process that creates a chemical barrier for a pre-produced container to prevent changes in chemical composition. Using fluorinated sealed technology improves container stability, and is intended to make containers less permeable, reactive, and dissolvable. EPA confirmed that PFAS is not a known ingredient or additive in the affected product. EPA laboratories are testing product samples at different steps of production and manufacturing, in addition to the agency’s study of the containers themselves.

**3. Scientific Advisory Panel Report Released –New Method of Evaluating Organophosphate Risk to Human Health, Developmental Neurotoxicity:** The meeting minutes and final report were released for the September 2020, Federal Insecticide, Fungicide, and Rodenticide Act Scientific Advisory Panel (FIFRA SAP) meeting, which reviewed the use of new approach methodologies (NAMs) to evaluate pesticide risks to human health. The NAMs could be used to reduce the EPA’s reliance on default risk assessment uncertainty factors in favor of more refined data-derived factors. The risk assessment recently conducted for naled and the other organophosphates may be revised to reflect updated data-derived safety factors for each compound. If the safety factors for naled are reduced as a result of the SAP, the subsequent revised risk assessment may no longer identify the aerial use of naled for mosquito control as a potential risk of concern on the day of application.

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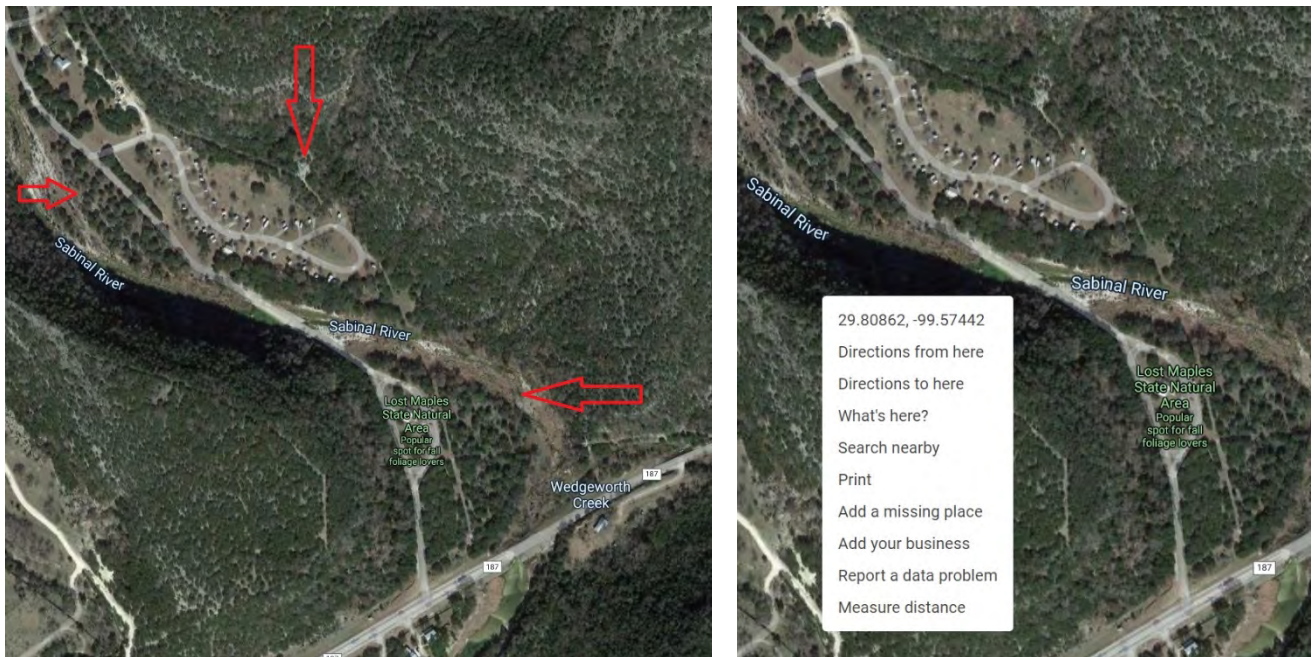
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# Using Google Maps to Document Collection Locations

Bill Sames

You may have sophisticated computer software to help you document collection locations, but those who do not, can use Google Maps and Microsoft Paint. First, open [maps.google.com](https://maps.google.com), then search for and find your location. Zoom in as necessary, then switch to satellite mode. Adjust the map so you can see your site and surrounding features such as highways, streets, etc. If you desire, select the full screen function key (usually F11) to get a larger field of view, then find your “print screen” button and push it. Get out of full screen mode (hit F11 again). Now open Microsoft Paint or a similar program. Paste the “print screen” image into the program using the Home-Paste tab or by holding down Control and pushing the “V” key just once. Using Paint, you can crop the image to remove undesired screen edges; you can add arrows to pinpoint a collection location, and you can save it as a JPEG or in another format. If you want coordinates for latitude and longitude, then in Google Maps simply right click on the location. A pop-up window will display, and the coordinates will be at the top.



The map on the left shows area in satellite mode with red arrows pointing to collection locations (example only, not actual collection locations!). The map on the right shows the pop-up window that appears when you right click on a location (once again, an example, not an actual). Notice how road numbers and features such as rivers and site names are included in the map.

Creating images like this will help to document your collections. They serve as a reminder to you of when you were there and the exact location of the sample. When you show them to others, it helps them get a better perspective of the location and what it may have looked like when you took the sample. Imagine what these sites will look like in 100 years.

Finally, you need to name the image so that it correlates to your collection data. I find the date (formatted like YYYYMMDD) followed by the county name followed by a road or location name to be useful. For the above example, I might use 20210125 Bandera County Lost Maples St Park. If you make a lot of collections in one county, then using an accession number may be of use.

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## **TMCA: Who Gets the Credit?**

### **Salvador Rico**

Greetings again to all members of our Texas Mosquito Control Association and to our family, friends, acquaintances, sponsors & vendors! When the work is getting done and you... Yes, you the boss begin to receive the positive compliments... What do you say? You say... "Thank-you", right! Good answer, but... are you forgetting someone?

Sure, you are the leader of the group, the face of the team. You even made the plan! But, who was the backbone of using their muscle, time, talent while you supervised? Always remember your teammates, your team. The ones in the background. Those toiling behind the scenes or even in front of the scenes.

Give credit where credit is due. When the accolades start coming your way, sure maybe you deserve it. However, do not forget those who also made it happen, especially if they did some heavy lifting.

So, for example, people begin to praise you, let them know that it was not only you... it is also your teammates who may deserve the credit for the hard work they put in. In other words, I could not have done it without these great teammates. They deserve the credit too. Your teammates can break you or lift you up. If you keep putting them to the side or never acknowledging them... well, let us just say, you don't really want to go there. You may begin to revive less than 100%. Give credit where credit is due, and it will take you a long way for being truthful and the respect will be there. You may be the boss but, you are not alone. It does take a team. To all of you, I tip my hat and say, "Thank-you". Keep up the Great Work!

If you're interested in joining a committee, please contact us at:

<https://www.texasmosquito.org/membership-and-committees>)

Yes, it is our turn! Check us out Texas Mosquito Control Association <https://www.texasmosquito.org/> become a member of the best organization in the State of Texas.



# Final 2020 Mosquito-Borne Disease Update



**TEXAS**  
Health and Human  
Services

Texas Department of State  
Health Services

2020 DSHS Arbovirus Activity Report  
Week #53 (ending January 2, 2021)  
Report Date: Jan 5, 2021

Table 1. 2020 Arbovirus Activity Summary, Texas, Week 53

Arbovirus	Positive Mosquito Pools	Avian	Equine	Sentinel Chicken	Human						TOTAL
					Febrile Illness	Neurologic Illness	Severe Dengue	TOTAL (HUMAN)	Deaths	PVD <sup>2</sup>	
California Serogroup <sup>1</sup>								0			0
Chikungunya					3			3			3
Dengue					44			44			44
Eastern Equine Encephalitis								0			0
St. Louis Encephalitis	16			1		2		2			19
West Nile	1389	1	4	3	10	59		69	15	30	1466
Zika								0			0
<b>TOTAL REPORTS</b>	<b>1405</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>57</b>	<b>61</b>	<b>0</b>	<b>118</b>	<b>15</b>	<b>30</b>	<b>1532</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" column.

Table 2. 2020 Aedes-Associated Arbovirus Activity by County†, Week 53

County	CHIKV <sup>‡</sup>		DENV <sup>**</sup>		ZIKV <sup>‡</sup>			COUNTY TOTAL
	M	H	M	H	M	H	PVD <sup>‡</sup>	
Bastrop				1				1
Bexar				1				1
Brazos				1				1
Cameron				2				2
Collin				1				1
Dallas				1				1
Ector				1				1
Fort Bend				2				2
Harris				3				3
Hays				1				1
Hidalgo				14				14
Travis				2				2
Webb				14				14
Total Number of Reports	0	3	0	44	0	0	0	47

M - mosquito H- human

CHIKV - Chikungunya Virus

DENV - Dengue Virus

ZIKV - Zika Virus

\*All reported cases are imported.

\*\*Includes cases transmitted by mosquitoes in Texas: Hidalgo County (5), Webb County (4).

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

‡PVDs are not included in the "County Total" column.

For by-county distribution of cases and more information go to:

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

**These are the TMCA Constitution and By-Laws as approved by member vote during the TMCA Annual Virtual Meeting held on December 9, 2020.**

CONSTITUTION AND BY-LAWS  
THE TEXAS MOSQUITO CONTROL ASSOCIATION

CONSTITUTION

ARTICLE I

NAME, DESCRIPTION, AND OBJECTIVES

A. Name: This organization shall be known as The Texas Mosquito Control Association, Incorporated.

B. Description: The Texas Mosquito Control Association, Inc. is a non-profit, technical, scientific and educational association of mosquito workers, entomologists, medical personnel, engineers, public health officials, military officers, individuals and laymen who are charged with, or interested in mosquito control and related work.

C. Objectives: The objectives of the Association shall be to:

1. Promote closer cooperation among those directly or indirectly concerned with, or interested in mosquito control and related work.

2. Work for the highest standards of efficiency in such work.

3. Encourage further research on control techniques and mosquito bionomics.

4. Disseminate information about mosquitoes and their control.

5. Work for understanding, recognition, and cooperation among public officials and the public at large regarding the aims of the Association.

6. Encourage the enactment of legislation providing for a sound, well balanced program of mosquito control work suited to local conditions where needed.

7. Meet and fairly disarm opposition to mosquito control work from any source by promoting an understanding of control procedures and methods.

8. Promote the protection of wildlife in every possible way by avoiding harm to the environment and encouraging the use of control measures calculated to bring about the lowest practicable level of environmental impact when diverse interests may be involved.

9. Work for the highest degree of cooperation among agencies and organizations and the Association to the end that common interests may be most fully served.

10. Publish newsletters and other publications in the furtherance of these objectives.

ARTICLE II  
MEMBERSHIP

- A. Active Member: Any person who is interested in mosquito control and in the cause of mosquito control in Texas desiring affiliation with this Association, shall be eligible for membership and such membership shall entitle them to all privileges of the Association.
- B. Sustaining Member: Sustaining Membership will be provided for Equipment and Material Suppliers. A sustaining member will be allowed one vote in the affairs of the Association.
- C. Life Member: Life Membership shall be conferred upon persons retired from active mosquito control operations. Such classification shall be conferred by the general membership of the Association at an Annual Meeting.
- D. Honorary Member: Honorary Membership may be conferred on any person, whether or not a resident of Texas who had rendered such service to the cause of mosquito control as to entitle this person to special recognition. Such membership shall be conferred by the general membership of the Association at an Annual Meeting. This membership shall include all past presidents of the Association who have attained the age of 65 years.
- E. Voting Privileges: Each member, except Honorary members, shall be entitled to cast one vote personally or by written proxy during business meetings of the Association.

ARTICLE III  
OFFICERS

- A. Officers: The officers of the Association shall be those of President, President-Elect, First Vice-President, Second Vice-President, Secretary, and Treasurer. All officers may vote on Board decisions.
- B. President, President-Elect and Vice-President: The duties of the President, President-Elect and Vice-President shall be those commonly understood as connected with these positions.
- C. Secretary:
1. The Secretary shall act as the Secretary of the Association, and of the Board of Directors.
  2. The Secretary shall take and maintain minutes of all meetings.
  3. The Secretary shall be a member of the Membership Committee and ensure a list of all members of the Association with the anniversary dates of their enrollment as members is kept.
  4. The Secretary shall be a member of the Publicity, Newsletter, and Media Committee.
  5. The Secretary shall produce an annual report of Secretarial activities and shall conduct such correspondence of the Association as is usually conducted by the Secretary of similar organizations.
- D. Treasurer:
1. The Treasurer shall receive and have charge of all funds of the Association and funds shall be disbursed by the Treasurer as directed by the Board of Directors. In the event the Treasurer is

incapable of carrying out the duties of this office, the President is empowered to execute checks on funds of the Association.

2. The Treasurer shall furnish a Financial Statement to Association members at each annual meeting and to the Board of Directors at those times these may be requested.

3. On an annual basis the Treasurer shall produce all banking accounts, books, vouchers and necessary documents for examination by the Audit Committee. The Audit Committee shall report the results of their audit to Association members in writing in an appropriate issue of the Association Newsletter.

4. If requested by the Board, the Treasurer shall furnish a surety bond in an amount that may be prescribed.

E. President-Elect: It shall be the duty of the President-Elect, during the year or period, following election to office, to become familiar through conference with the President and other officers with details of business and affairs of the Association, to facilitate better functioning of the office of President whenever the President-Elect assumes that office.

## ARTICLE IV

### TERM OF OFFICE

All officers shall be elected for one year, or until their successors are elected and qualified. No officer except the Treasurer or Secretary, with Board approval, shall succeed themselves. The President-Elect will succeed automatically to the office of President. Officers elected at any Annual Meeting shall begin their duties on the day of installation of the new officers at that Annual Meeting.

## ARTICLE V

### BOARD OF DIRECTORS

A. Membership: The Board of Directors shall consist of:

1. The Officers of the Association (President, President-Elect, First Vice-President, Second Vice-President, Secretary, and Treasurer)

2. The Immediate Past-President: The Immediate Past President provides advice and leadership to the Board of Directors regarding past practices and other matters to assist the Board in governing the Association. The Immediate Past President supports the President and the President-Elect on an as-needed basis. The Immediate Past President performs the duties of the President in the absence or disability of the President. The Immediate Past President may vote on Board decisions.

3. Two members at large elected as Directors for a period of two years. These Directors participate in the planning, decision making, and implementation of projects as determined by the Board of Directors. Each Director may vote on Board decisions.

4. The Regional Director to the American Mosquito Control Association from the Southwest Central Region, who shall serve as an ex-officio member of the Board. The ex-officio does not vote on Board decisions. The ex-officio clause does not apply if this person is simultaneously serving as an Officer of the Association, immediate Past-President, or as a Director elected at large.

B. Chairman: The President of the Association shall be Chairman of the Board of Directors.

## ARTICLE VI

### QUORUM

A. General Business Meetings: A quorum of any meeting of the Association shall consist of not less than 25% of the Active Members, at least two of whom shall be officers of the Association.

B. Board Meetings: A quorum of the Board of Directors shall consist of any four or more members of the Board.

## ARTICLE VII

### MOTIONS AND RESOLUTIONS

A. Business Conducted at Annual Meetings:

1. The officers of the Association shall inform Association members of their activities since the last Annual Meeting and indicate which matters need member approval by presenting appropriate motions and resolutions for consideration.

2. Motions and resolutions may be presented from the floor at any Annual Meeting of the Association by any member in good standing. Matters involving policy, however, shall be referred to the Board of Directors for study and the Board shall report its recommendations back to Association members for action at that or a subsequent Annual Meeting.

B. Business Between Annual Meetings: The Board of Directors shall have full power of the Association in all matters demanding actions between meetings of the Association, and shall submit at the next succeeding meeting a report of all actions taken by them under authority of this section.

## ARTICLE VIII

### AMENDMENTS

This constitution may be amended by a two-thirds vote of the active members present at any Annual Meeting when a quorum is present, provided notice of the proposed amendment was given in writing to the Secretary and transmitted by the Secretary in writing to active members, 30 days before the Annual Meeting, and provided that notice of the time a vote on said amendment has been announced at least twelve hours in advance of its occurrence.

## ARTICLE IX

### FISCAL YEAR

The fiscal year of the Association shall begin January 1 each year and coincide with calendar year annually.

## ARTICLE X

### ELECTIONS

- A. Officers of the Association shall be elected at each Annual Meeting by ballot or viva-voce, such Annual Meeting to be held at a time and place designated by a majority vote of the Board of Directors.
- B. No member shall be eligible for office who has not been a member of the Association for one year.
- C. Vacancies in the office of President between terms shall automatically be filled through succession in the following order: President-Elect, First Vice-President, Second Vice President.
- D. Upon a vacancy in an office other than that of President, the President shall call a special meeting of the Board of Directors within 30 days of the notice of such vacancy. Whereupon the Board shall appoint a successor to fill the vacancy in the respective office until an election can be held at the next Annual Meeting. In case the President is unable or unwilling to call a special meeting to fill such a vacancy, then the Secretary after consulting with other officers shall call a meeting of the Board for this purpose.

## ARTICLE XI

### DISSOLUTION

- A. None of the profits of the Association shall inure to the benefits of any of its members.
- B. In the case of dissolution and after all indebtedness has been paid, the remaining assets will be transferred to the American Mosquito Control Association, Incorporated.

## **BY - LAWS**

### ARTICLE I

#### MEETINGS, FEES AND DUES

- A. Annual Meetings: An Annual Meeting shall be conducted by the Association, with the time and place being decided by a majority vote of the Board of Directors. Plans for next Annual Meeting informing members of the scheduled time and place shall be announced during each Annual Meeting.
- B. Special Meetings: Special Meetings of Association members may be organized and announced as determined by the Board of Directors.
- C. Fees and Membership Dues:

1. The Board of Directors shall determine what membership dues and service fees may be needed to support the activities of the Association.
2. Membership dues shall be payable annually before January 1 of the year membership is requested.
3. Honorary and Life members shall not be required to pay membership dues.

## ARTICLE II

### COMMITTEES

#### A. Standing Committees:

1. The Membership Committee shall consist of five active members of the Association including the Secretary. This Committee shall investigate and promote memberships in the Association.
2. The Publicity, Newsletter, and Media Committee shall consist of five active members, including the Secretary. This committee will produce and distribute the TMCA newsletter, act on TMCA webpage/internet issues, and conduct public relations using traditional and online resources.
3. The Legislative Committee shall consist of five active members whose duties shall be such as assigned by the President.
4. The Program Committee shall consist of the members of the Board of Directors and their duties shall be to provide programs for each Annual Meeting.
5. The Scholarship and Awards Committee shall consist of three active members of the Association, which includes the Secretary as ex-officio member. This Committee shall have full and total authority to administer the James Gus Foyle Memorial Scholarship, the Dr. James D. Long Memorial Scholarship (undergraduate), the Dr. Jimmy K. Olson Memorial Scholarship (graduate), and the Bull Schmidt Award, and to administer any other awards or scholarship that may be established. In the solicitation, reviewing, selecting and awarding a scholarship or award to applicants, no persons shall be discriminated against because of sex, religion, race, color or national origin.

#### B. Special Committees:

1. The Nominating Committee shall consist of five active members who shall recommend to the Association candidates for election as Officers and Directors. The Immediate Past President will serve as the Chair of this committee.
2. The Auditing Committee shall consist of five active members whose duties shall be to annually examine and audit the financial records of the Association and to report the financial condition of the Association to Association members.
3. The Constitution, By-Laws, and Resolutions Committee shall consist of five active members. This Committee shall periodically review the TMCA Constitution and By-Laws and adjust

them as described in Article VIII of the Constitution and Article V of the By-Laws. All resolutions shall be presented to this Committee, who in turn will present them to Association members for approval at an Annual Meeting.

4. The Financial Support Committee shall consist of three active members and work with members, vendors, and the public to ensure funding of TMCA activities.

5. The Workshop CEUs Committee shall consist of three active members and organize the annual spring workshop. They shall coordinate with the appropriate agency or agencies for Continued Education Units (CEUs) for workshop attendees.

6. The Local Arrangements Committee shall consist of five active members located in or near the upcoming Annual TMCA Meeting (fall) and shall work with the Program and Scholarship and Awards Committees to coordinate for the hotel, and other required venues for holding the annual meeting.

7. The Systematics Committee shall consist of three active members who have an intermediate to advanced knowledge of mosquito systematics. This committee shall update the TMCA mosquito species list and provide guidance on dealing with evolving systematic issues.

8. The TMCA Young Professionals Committee shall consist of at least 3 active members who shall create an environment in which young professionals in the mosquito control industry can feel welcome and create contacts with their peers and with seasoned professionals. A Young Professional is any member who is in their early years of the mosquito control industry.

9. The Board of Directors shall organize other committees as from time to time may be deemed necessary.

### ARTICLE III

#### RULES OF ORDER

A. Business sessions of the Association shall be conducted in accordance with Robert's Rules of Order.

B. Officers and all Committees shall prepare a Standard Operating Procedure for their respective position or committee, which shall be passed to successors for continuance in the organization. This SOP shall include procedures on how the committee operates and details on historical elements of the organization. For example, the President's SOP should have details on recurring and special decisions, and a list of all prior Presidents and the years they served; the Awards and Scholarship Committee should have details about the procedures of announcing, receiving, and processing applications, and a list of all prior Award and Scholarship recipients and the date and the amount of the award or scholarship.

### ARTICLE IV

#### PUBLICATIONS

All publications of the Association shall be issued under the direction of the Board of Directors and shall become the property of the Association.



ARTICLE V

BY - LAWS AMENDMENTS

These by - laws may be amended by a two-thirds vote of the members present at any Annual Meeting, provided that notice of the proposed amendment has been given in writing to the Secretary and transmitted by the Secretary to the active members 30 days preceding the Annual Meeting.

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Approved at the TMCA Annual Business Meeting on the 9<sup>th</sup> day of December 2020.

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Greg Marciniak, President

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William J. Sames IV, Chair, Constitution & By-Laws Committee

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Revisions: December 14, 1965

October 26, 1978

October 10, 1980

October 15, 1981

January 6, 1987

October 7, 1993

October 18, 2017

December 9, 2020

# 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)