

TEXAS MOSQUITO CONTROL ASSOCIATION NEWSLETTER

Volume 42

November

2022



Salvador Rico at the 64th TMCA Annual Meeting, Grand Galvez Hotel, in Galveston.

Editor – William Sames, Ph.D.

Contributors – James Garcia, Salvador Rico, Mike Nichols



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About the Cover: Salvador Rico, TMCA Treasurer, enjoyed the TMCA Annual Meeting at the Grand Galvez Hotel in Galveston, TX, October 25-27. This and other photos by Salvador Rico are throughout the newsletter.

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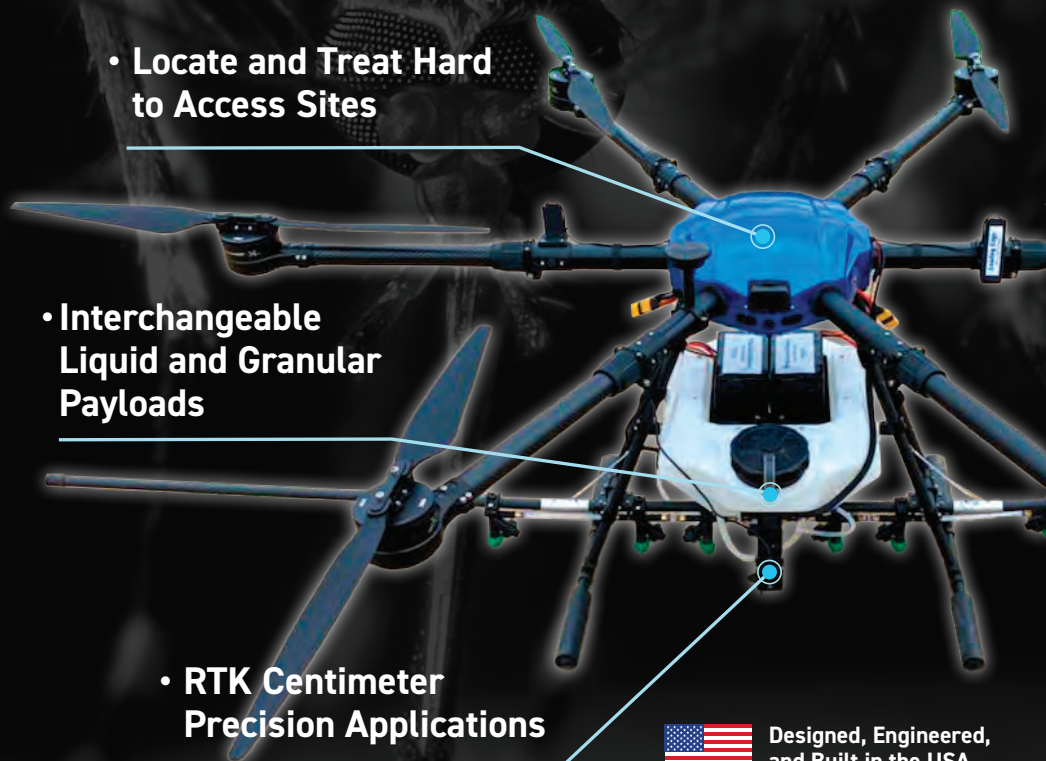


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Oct 2022-Oct 2023 Texas Mosquito Control Association Board of Directors

President	James Garcia	City of Baytown Mosquito Control, Baytown, TX
President-elect	Meagan Wise-de-Valdez	Texas A&M University San Antonio, San Antonio, Texas
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2nd Vice-President	Sonja Swiger	Texas A&M AgriLife Extension, Stephenville, TX
Director	Jason Pitts	Baylor University, Department of Biology, Waco, TX
Director	Colton Cooper	Azelis A&ES, Shreveport, LA
Secretary	Bethany Bolling	Laboratory Services Section, TX Dept State Health Services, Austin, TX
Treasurer	Salvador Rico	Harris County PHS Mosquito Control Division, Houston, TX
Past President	Nina Dacko	Tarrant County Public Health, Vector Control, Fort Worth, TX

To contact a Board member, please send an email to 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 2022-Oct 2023 Texas Mosquito Control Association Standing Committees

Legislative	Mike Nichols, Chair	R. Duhrkopf
Membership	Mark Johnsen, Chair	M. Nichols, P. Prather, M. McNairn, S. Swiger
Program	Emily Boothe, Chair	Board of Directors
Publicity – Newsletter, Website, Social Media	Nina Dacko, Chair	W. Sames (Chair, Newsletter Subcomm), C. Steele (Chair, Website Subcomm), S. Rico (Chair, Social Media Subcomm)
Scholarship & Awards	Megan Wise de Valdez, Chair	J. Pitts, B. Bolling, S. Swiger

Oct 2022-Oct 2023 Texas Mosquito Control Association Special Committees

Auditing	Megan Wise de Valdez, Chair	M. Johnsen, P. Beebe, C. Fredregill
Constitution, By-laws & Resolutions	William Sames, Chair	M. Nichols, J. Pitts (transitions to chair on Jan 1, 2023)
Financial Support	James Garcia, Chair	J. Flosi, M. Nichols
Local Arrangements	Patrick Prather, Chair	S. Swiger, S. Rico
Nominating	Salvador Rico, Chair	R. Duhrkopf, J. Flosi
Young Professionals	Jason Fritz, Chair	Per Chair, being reorganized; contact Chair for consideration
Mosquito Systematics, Identification, and Biology	William Sames, Chair	B. Bolling, R. Duhrkopf, J. Flosi
Workshop CEU's	Sonja Swiger, Chair	P. Prather, S. Rico



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James Garcia

Message from the President James Garcia

Hello TMCA members! It does not seem like a month has passed since our annual meeting in Galveston! For those that attended, I hope you agree that last month's meeting was a huge success on all fronts, from attendance, compliments on the venue, and vendor support. First, I thank our members for the continuous support of your TMCA, along with the collaboration of the TMCA board and committee members that are working in the background to plan, organize and make it all happen.

During the meeting, this year's Azelis A&ES sponsored Keynote Speaker, Adriane Rogers delivered an impeccable presentation focused on Operational Mosquito Control;

"Procedures, People, Paperwork, & Politics". There were many compliments to Adriane and her diverse background in mosquito control, and it was nice seeing another States perspective and operational features, budgeting, politics, and more. Definitely, it was a different viewpoint than what many of us experience here with our Texas programs. I hope all that were fortunate enough to attend gathered ideas to implement with their programs or budget requests.

As part of the Annual Business Meeting, the Systematics Committee was renamed as Mosquito Systematics, Identification, and Biology Committee. The committee requested this name change to provide clarification as to what the committee does. The name change involved a By-Laws change, which required membership approval at the annual meeting. The membership approved this change. In the recent past, the Committee updated the Texas Mosquito Species list and has been active in finding (*Aedes japonicus*) and keeping us informed about potential invasive species (*Aedes vittatus* in August 2022 newsletter, and *Aedes notoscriptus* in this newsletter).

The Legislative Committee submitted an exceptional report on current issues that may affect your mosquito control operations. The full report is in this newsletter, so please take the time to read and understand what is happening in our industry.

Currently, and for most of us, the season is over for our pesky little mosquito friends. Though some of us here on the Gulf Coast are still battling with some nuisance species that will just not go away, even with the cooler temperatures. With that, let's not forget to get prepared for winter maintenance of application equipment and ULV foggers. Proper maintenance is the key to long-lasting and reliable equipment. Many of the chemical vendors we call on will be able to share their guidance along with other maintenance items to help keep your machines running.

Lastly, lets focus on our Spring Workshop, which will be held in San Antonio at the Botanical Gardens on April 12th, 2023! Dr. Sonja Swiger has been working hard on these arrangements and here we are with a location 5 months in advance! See the Spring Workshop Flyer in the newsletter. This Spring Workshop will afford us our pesticide CEU's and gather in great fellowship as we continue to learn, educate, and protect public health!

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 27 Feb-3 March 2023 in Reno, Nevada. 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.

2023 TMCA Spring Workshop. The TMCA with Texas AgriLife will hold its Spring Workshop at the San Antonio Botanical Center, 555 Funston Place, April 11-12, 2023. The meeting hotel is the Emily Morgan Hotel, 705 East Houston Street where a workshop social will be held on April 11th. See flyer in this issue for details!

Wanted: TMCA Newsletter Editor

If you are interested in becoming the next Editor of the TMCA newsletter, please contact William Sames at mosquitodoctor@yahoo.com. William will continue to serve as Editor until replaced OR until December 31, 2023, whichever comes first. Since 2001, William Sames has served over 9 years as Editor or Assistant Editor of the TMCA Newsletter, and he is ready to give someone else the opportunity to release their creativity and take over the responsibilities of this publication.

Dr. Jason Pitts to Chair the Constitution, By-Laws, and Resolution Committee



On January 1, 2023, Dr. Jason Pitts, Professor, Baylor University, will assume responsibilities for the TMCA Constitution, By-Laws, and Resolution Committee. He will replace Dr. William Sames, who has chaired that committee since October 2017 and oversaw three revisions. In January 2022, Dr. Sames assumed responsibilities for the newly renamed Mosquito Systematics, Identification, and Biology Committee with the stipulation that he would be replaced as Chair of the Constitution, By-Laws, and Resolution Committee by the end of 2022. Dr. Pitts agreed to chair the committee and the transition is in progress.

Global Mosquito Resistance Management

- A Virtual Summit -

Originally published in the
March 2022 edition of Public Health Landscape
www.publichealthlandscape.com

COVID-19 taught us many lessons. It shined a spotlight on what Public Health professionals deal with every day: no matter where in the world we live, our economic status, how old we are, our gender, or the color of our skin, in the end we are all connected. And in times of crisis, that connectivity demands a coordinated response.

In the face of vector-borne disease, global mosquito insecticide resistance poses a more subtle, but no less ominous threat. The tools we have are numbered and for many of them, their effectiveness is waning. How do those entities and individuals charged with protecting human potential harness the collective strength and knowledge of the Global Public Health community to combat the onset of resistance?

To find out, watch the Global Mosquito Resistance Management Virtual Summit that was held on March 24, 2022. The Virtual Summit included presentations by a distinguished list of international Public Health experts from government, academia, and industry, all working collectively with the objective of communicating ideas and strategies for resistance management in the battle against vector-borne disease. Highly focused on research, presentations included information on:

- types of resistance mechanisms
- current resistance trends from the US, Africa, Latin America, and Asia
- alternate vector control tools to combat resistance
- resistance management best practices
- recent field work from those battling with resistance in local mosquito populations

You can find the entire summit, as well as individual presentations, at the following address: <https://tinyurl.com/Resistance-Summit-2022>



The 64th TMCA Annual Meeting Convened October 25-27, 2022 at the Grand Galvez Hotel in Galveston

On October 25-27, the Texas Mosquito Control Association held its Annual Meeting at the Grand Galvez Hotel, Galveston, TX. The event began on October 25th with registration at the hotel followed by an Early Bird Social sponsored by Vesperis. That evening, the TMCA Board of Directors met at the hotel restaurant for their quarterly Board meeting.

Overall, the meeting was a success with 92 people in attendance of which 66 were regular members, 10 were student members, and 16 were vendors. There were 27 professional presentations, which updated attendees on the status of mosquito surveillance, control, research, and regulations in Texas. These presentations initiated interesting discussions and future collaborations.

A BIG THANKS to Kevin Pritts, Harris County Mosquito and Vector Control, for organizing and operating the audio visuals at this meeting!

Wednesday, the 26th, began with Nina Dacko giving the Presidential Address, followed by Herff Jones, who provided an update on activities of the American Mosquito Control Association. Nina then introduced the Azelis A&ES Keynote Speaker, Adriane Rogers, who represented the Pasco County Mosquito Control District in Florida. Other presentations followed with a Central Life Sciences sponsored morning coffee break and an afternoon snack break sponsored by Target Specialty Products. A delicious fajita lunch buffet was cosponsored by Clarke and the TMCA. The last scheduled event of the day was the Annual Business Meeting. Rather than Committee Chairs presenting to the membership, a summary of Board and Committee activities was presented, then the membership elected new Board officers and the new officers were installed. This change in procedures created some confusion, which necessitated the new President to call a Special Business Meeting the next morning. In the evening, the Young Professionals held a dinner which was sponsored by Municipal Mosquito at the Bubba Gump Shrimp Company. Jason Fritz, YP Committee Chair, reported that they had so much fun that they forgot to take a group picture!

Thursday, the 27th, began with a Special Business Meeting to attain membership approval on a By-Laws change. The membership approved the proposed change, which was to rename the Systematics Committee as the Mosquito Systematics, Identification, and Biology Committee. The half day of presentations began and included one coffee, pastries, and bagel break sponsored by Valent BioSciences and adjournment of the meeting. As customary, a drawing for door prizes was held at the end of the meeting for registered attendees who were still present. Mark Johnsen and Salvador Rico did an excellent job of acquiring and presenting the prizes to the membership.

Young Professional Student Paper Competition

The Young Professional Student Paper Competition session was held on October 26th and moderated by Dr. Megan Wise-de-Valdez of Texas A&M University-San Antonio.

For the student paper competition, 5 presentations were heard. Ashley Aguilar, Masters student at Texas A&M University-San Antonio, took first place (\$500) for her presentation on *Mosquito surveillance at the San Antonio Zoo*, and Oscar Hernandez, Masters student at Texas A&M University-San Antonio, took second place (\$250) with his presentation on *Vegetative shade coverage and mosquito abundance across neighborhoods of different socioeconomic status*.



Jason Fritz, TMCA Young Professionals Committee Chair, presented certificates and checks to the YP Student Competition winners: 1st Place – Ashley Aguilar (left photo) and 2nd Place – Oscar Hernandez (right photo); both attend Texas A&M University-San Antonio. Photo by Salvador Rico.

2022 TMCA Scholarship Awardees



Dr. Megan Wise-de-Valdez, Chair, TMCA Scholarship and Awards Committee, presented certificates and checks to Ashley Aguilar (left photo) of Texas A&M University-San Antonio who was awarded the Jimmy K. Olson Memorial Scholarship and Nicole Scavo (right photo) of Texas A&M University-College Station who was awarded the James (Gus) Foyle Memorial Scholarship. Photo by Salvador Rico.

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2022 Azelis A&ES Keynote Speaker – Adriane Rogers

Executive Director, Pasco County Mosquito Control District, Florida



At some time in the past Azelis A&ES (formerly ADAPCO, which rebranded in early October 2022) donated \$1000 annually to the TMCA to support the presence of a Keynote Speaker at the TMCA Annual Meeting. This evolved into a process where the TMCA invites and covers travel costs for the Keynote Speaker and the Azelis A&ES annual donation is used to provide a professional honorarium of \$1000 to the speaker. Over the years, many national and world-renowned mosquito control and research personnel have presented at the TMCA Annual Meeting.

This year was no different and following this process, Adriane Rogers, Executive Director of the Pasco County Mosquito Control District, Florida provided the 2022 Azelis A&ES Keynote Address at the TMCA’s Annual Meeting in Galveston. The talk focused on operational mosquito control with an

emphasis on procedures, people, paperwork, and politics. Mrs. Rogers discussed the necessity to provide comprehensive integrated mosquito management; including public education, source reduction, habitat manipulation, mosquito and disease surveillance, larvicide applications, adulticide treatments, biological control, and resistance monitoring to ensure efficacy of the targeted mosquito populations. Leadership in mosquito control is immensely important to effectively run a control program, as are the people on the team. She advised on the importance of bringing the right people together to build a strong unit and how best to utilize limited resources and comply with federal, state, and local guidelines. And lastly, Mrs. Rogers informed the members on challenges facing the mosquito control industry and lessons learned. Her final message was to “keep everlastingly at it” despite those challenges and remember that mosquito control professionals are saving lives by protecting public health. You are unsung heroes and that is something Mrs. Rogers wishes you will forever keep in mind in the pursuit of your duties.

Bio – Adriane Rogers, 2022 Azelis Keynote Speaker

The 2022 Azelis A&ES Keynote Speaker was Adriane Rogers, Executive Director, Pasco County Mosquito Control District in Florida, and she shared her experiences of managing mosquito control throughout the State of Florida. While Florida mosquito control districts tend to be larger and funded differently than Texas, they deal with many of the same species and mosquito borne diseases. Meeting attendees gained insight on how Texas might improve their mosquito control capabilities through enhanced staffing, funding, and agency interactions.

Mrs. Rogers began her Florida Mosquito Control career as the Research and Surveillance Entomologist for the Florida Keys Mosquito Control District in Key Largo, Florida. In her 8 years with the District, she was responsible for performing mosquito surveillance to monitor species diversity and abundance, conducting research, monitoring mosquito populations for resistance to insecticides and executing new product and equipment trials. Mrs. Rogers left the Keys to serve as the State of Florida's Medical Entomologist and as the Bureau Chief with the Florida Department of Agriculture and Consumer Services, where she was the subject matter expert in mosquito control. She worked with state and federal partners to secure grant funding opportunities to improve mosquito surveillance and control infrastructure throughout Florida. Mrs. Rogers chaired the Florida Coordinating Council on Mosquito Control and has served on local, state, and national advisory panels representing Florida's mosquito control activities along with preparedness and response to natural disasters and public health threats. Mrs. Rogers was integral in the fight against Zika in the United States and Florida specifically in 2016 and 2017 by leading the team responsible for ensuring that all counties in Florida had the capacity to respond to imported or locally transmitted cases of Zika Virus and by guiding policy and control decisions made during the outbreak in Miami-Dade County. Currently, she occupies leadership roles within the Florida Mosquito Control Association and serves as the Executive Director for the Pasco County Mosquito Control District, overseeing a staff of mosquito control professionals aimed at protecting public health and improving quality of life for Pasco County residents and visitors.

Azelis A&ES Keynote Address

Adriane Rogers received a plaque and honorarium in recognition of her Keynote Address from Colton Cooper of Azelis A&ES. Photo by Salvador Rico.

In early October ADAPCO underwent a rebranding and their name changed from ADAPCO to Azelis A&ES (Azelis Agricultural and Environmental Solutions).

The TMCA gratefully thanks the support they received for Keynote Speakers from ADAPCO and looks forward to continued support from Azelis A&ES.



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Presenting the Oct 2022-Oct 2023 TMCA Board of Directors

Greg Marcinak, Past President and Chair of the Nominating Committee, presented nominations for Board Officer and Board Director positions during the business meeting on October 26th. No other nominations were presented, and the membership elected these individuals for the position nominated. The results were:

Megan Wise de Valdez – President Elect
Patrick Prather – 1st Vice President
Sonja Swiger – 2nd Vice President
Bethany Bolling – Secretary

Jason Pitts – 1st Director
Colton Cooper – 2nd Director
Salvador Rico – Treasurer

Also serving on the TMCA Board are President – James Garcia (elected at the December 2021 TMCA business meeting) and Past President – Nina Dacko. Pictures of Board members will be updated on the TMCA website.



New TMCA President, James Garcia, recognized Nina Dacko for her service as TMCA President, October 2021-October 2022. Photo by Salvador Rico.

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These sponsors supported the TMCA Annual Meeting as exhibitors and sponsors of meeting events. Consider them when choosing your products and services.

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Colton Cooper
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3) Central Life Sciences

Gary Ross
P.O. Box 3432, Burleson, TX 76028
Phone: 682-300-0949
Email: gross@central.com
(Exhibitor, Sponsor – Coffee/Snack Break)



4) Clarke

Doug Carroll
675 Sidwell Court, St. Charles, IL 60174
Phone: 817-600-5353
Email: dcarroll@clarke.com
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5) Co-Diagnostics

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Email: s.egan@codiagnostics.com
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6) FMC

Donnie Powers
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Email: Donald.Powers@fmc.com
(Exhibitor)



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Linda Glover
2716 S. Lincoln Ave., Suite G, Jerome, ID
83338
Phone: 208-324-8006
Email: linda@frontierprecision.com
(Exhibitor, Contributing Sponsor)



8) Municipal Mosquito

Patrick Prather
Richardson, TX
Phone: 972-322-7669
Email: patrick@municipalmosquito.com
(Sponsor – Young Professionals Dinner)



9) Target-Specialty Products

David Herter, Mike Nichols
11730 Airline Hwy, Baton Rouge, LA 70817
Phone: 318-254-3330
Email: david.herter@target-specialty.com
(Exhibitor, Sponsor – Coffee/Snack Break)



10) Valent BioSciences

Candace Royals, Chris Byrne, Drew Hunter
3225 S. MacDill Ave #129-190, Tampa, FL
33629
Phone: 813-505-8852; Email:
candace.royals@valentbiosciences.com
(Exhibitor, Sponsor – Coffee/Snack Break)



11) Vesperis

Keith Haas, Christy Robinett
1919 Jacintoport Blvd., Houston, TX 77015
Phone: 713-203-0436
Email: Keith.haas@veseris.com
(Exhibitor, Sponsor – Hospitality Hour)



TMCA Annual Meeting, Grand Galvez Hotel, Galveston, TX

Photos by Salvador Rico



Herff Jones talking about the AMCA



The meeting room



Jason Fritz



The meeting room again



Michelle Downey



Michael Sanders

TMCA Annual Meeting, Grand Galvez Hotel, Galveston, TX

Photos by Salvador Rico



Anita Schiller



Dave Brown



Scenes at a TMCA luncheon



Nina Dacko



Ashley Aguilar

TMCA Annual Meeting, Grand Galvez Hotel, Galveston, TX

Photos by Salvador Rico



Bill Sames



The Harris County Round Table



Hallway of the Grand Galvez Hotel



Members enjoying a fajita buffet!

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Obituary: Martin Reyna Nava (1964-2022)

Many TMCA members will remember Martin Nava at annual meetings, spring workshops, or through interactions with the Harris County Public Health Mosquito Control. He was a friend to many and a joy to be around. He will be missed!

02
OCT

MARTIN REYNA NAVA

Posted by [Crowder Funeral Home - Clear Lake](#)

[2 comments](#)



Martin Reyna Nava, age 58, doting father of four, passed away in the comfort of his home from health complications.

Martin was born on August 26, 1964, to Reynaldo Reyna and Simeona Nava in Nuevo Laredo, Tamaulipas. He pursued a Master of Science in Medical Entomology and a Bachelor of Science in Biology at Universidad Autonoma de Nuevo Leon where he became a lifelong fan of the Tigres soccer team. He moved to Texas to raise a family shortly after. In his years working for Harris County Public Health and Environmental Services, he authored and co-authored 47 publications on arboviral disease vectors and became the Technical Operations branch manager until retirement.

His hobbies included running and cycling, competing in marathons and traveling. Fitting of his outgoing personality, he enjoyed volunteering at the Houston Rodeo where he could don his ranchero

roots. He was an avid traveler, particularly amongst the gorgeous beach towns of Mexico. He was also an 80's rocker, attending concerts of the legends. He was a dedicated enthusiast of futbol, even coaching soccer teams for his kids when they were young. He was their number one fan in sports competitions and a proud dad of his U.S Marine son.

He has been described by friends as having a friendly warmth and a contagious smile. He was known as always being happy, authentic, and the life of the party. Through his life's work and the legacy of his children, he will forever be remembered.

Martin was predeceased by his father in his early years of college. He is survived by his: children, Natalie, Valerie, Melanie and Alejandro Martin Reyna; his mother, and grandson, Lucah.

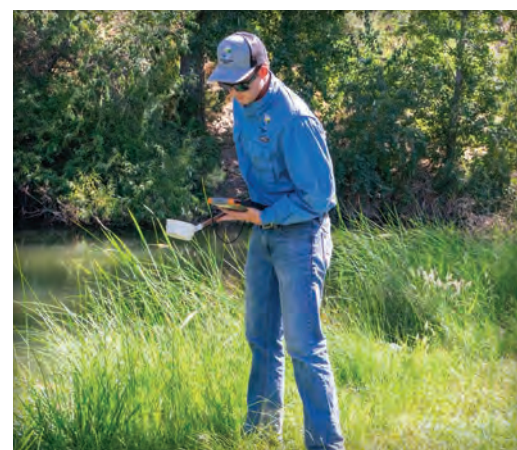
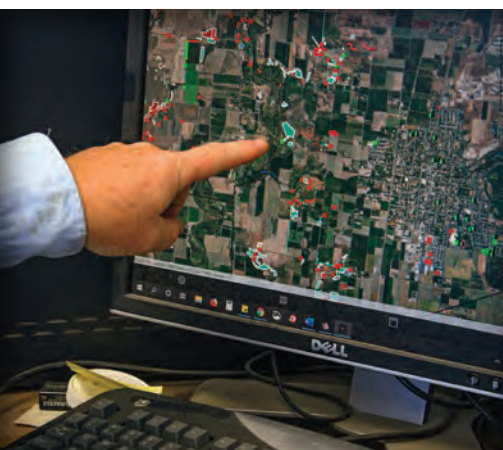
On Tuesday, October 4, 2022, from 6:00 pm - 7:00 pm Martin's family will greet guest for a viewing, follow by a Funeral service at 7:00 pm at Crowder Funeral Home, 111 E. Medical Center Blvd., Webster, Texas 77598. On Wednesday, October 5, 2022, at 12-Noon family and friends will meet for the Graveside Service at Forest Lawn Cemetery, 8601 Almeda Genoa Rd, Houston, TX 77075.

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***Aedes notoscriptus* has the Potential to Spread into Texas**

In the August TMCA Newsletter, there was an article discussing the potential spread of *Aedes vittatus* into Texas from the Caribbean. In 2014, *Aedes notoscriptus* (Skuse) was found in California and has the potential to spread across the southern United States. It is commonly called the Australian backyard mosquito. At the annual meeting, a reliable source stated that it has already be found in another state, and it might already be in Texas, so look for it the months to come.

Aedes notoscriptus utilizes natural and artificial containers for its larval habitats and human activities tend to favor its abundance. It has been implicated as a vector of several viruses and laboratory studies provide evidence that it could vector even more. Pictures for this species are available online. It looks very similar to *Aedes aegypti*, so start scrutinizing those specimens!

The following citations provide more information about this species and its introduction into the United States. Some of these are available free online.

Feiszli T, et al. 2020. Mosquito-borne diseases, *Vector-Borne Disease Section Annual Report, 2019*, (Sacramento, CA: California Department of Public Health), pp. 13–20.

Metzger ME, Wekesa JW, Kluh S, Fujioka KK, Saviskas R, Arugay A, McConnell N, Nguyen K, Krueger L, Hacker GM, Hu R, Kramer VL. 2021. Detection and establishment of *Aedes notoscriptus* (Diptera: Culicidae) mosquitoes in southern California, United States. *J Med Entomol* 59:67-77.

Peterson AT, Campbell LP. 2015. Global potential distribution of the mosquito *Aedes notoscriptus*, a new alien species in the United States. *J Vector Ecol* 40: 191–194.

Legislative Committee Report, October 25, 2022

This information was provided by Mike Nichols, Chair, TMCA Legislative Committee to the Board of Directors on October 25, 2022. It is important information for TMCA members, so here it is!

1) Fiscal Year 2023 Appropriations Bills

In the House of Representatives, the Committee on Appropriations submitted their Fiscal Year 2023 appropriations bills. AMCA members successfully advocated for funding and inclusion of committee report language supportive of mosquito control operations in several of the bills

The Senate Appropriations Committee released their FY23 spending bills and included in the Labor, Health and Human Services, Education, and Related Agencies report, language that nearly mirrored our FY23 request:

“Mosquito Control Activities. —The Committee is concerned that mosquito control activities are being negatively impacted by the lack of availability of mosquito control products due in part to the inadequacy of spray drift models utilized by the Environmental Protection Agency for public health related pesticide applications. The Committee recognizes that CDC is working with Vector-Borne Disease Regional Centers of Excellence to improve national capacity to address the growing problem of vector-borne diseases. The Committee urges CDC to direct funding from within the Vector- Borne Diseases budget to coordinate with States, mosquito control districts, universities, and other Federal partners to update spray drift models used in the pesticide registration process and has provided funding for this purpose. The Committee urges CDC to move expeditiously in support of these activities. The Committee further encourages CDC, consistent with the provisions of the Strengthening Mosquito Abatement for Safety and Health Act (Public Law 116–22) to increase

support to State and local mosquito control programs for mosquito-borne and other vector-borne diseases surveillance and control.”


AMCA needs your help to communicate with your members of Congress the need to sustain the language in the current bills, as well as to continue efforts to increase funding for an important account in the Centers for Disease Control and Prevention (CDC) budget that supports mosquito control activities. There will be more work to do to keep this language and the requested funding levels in the final bills.

Source: AMCA Newsletter, Fall 2022, Vol 51, Issue 4, Technical Adviser Report by Daniel Markowski, PhD

2) North American Pollinator Protection Campaign (NAPPC) - “Pesticide and Pollinators” Card


The goal of this card is to provide instructions to pesticide applicators when reading a pesticide label to reduce the risk of pesticide exposure to pollinating insects.

<https://www.pollinator.org/pollinator.org/assets/generalFiles/Reading-Pesticide-Labels-NAPPC-with-mitigation-2022v.final.pdf>




PROTECT POLLINATORS READ PESTICIDE LABELS



Four steps to reading a pesticide label to reduce risk to pollinating insects



1. OPEN THE LABEL.
STEP 1 - See if product is toxic and has more than 8 hour residual contact toxicity in the **ENVIRONMENTAL HAZARDS** statement.
STEP 2 - Look for general and crop-specific directions under **DIRECTIONS FOR USE**.



2. BEE TOXIC PESTICIDES will be indicated by the phrase **“TOXIC”** or **“HIGHLY TOXIC TO BEES”**. If toxic:


→


don't spray when in bloom wait until over 80% of petals fall

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, birds, fish and aquatic invertebrates.

This product is **highly toxic** to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are **actively foraging** the treatment area.

DIRECTIONS FOR USE

Protection of Pollinators
APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER POLLINATING INSECTS.

Tree Nuts (Crop Group 14-12)

Pest	(oz/acre)
Aphids	0.75 - 1.5 (0.025 - 0.047 lb/acre)
San Jose scale	2.75 (0.086 lb/acre)

Advisory Pollinator Statement: Notifying known beekeepers within 1 mile of the treatment area 48 hours before the product is applied. The RT25 for this product is less than or equal to 3 hours.

Restrictions:
- Do not apply this product any time between 3 days prior to bloom and until petal fall.

3. Some bee-toxic pesticides BREAK DOWN IN A FEW HOURS. Learn if these pesticides can be applied at bloom in the evening:

1. “FORAGING” or **“VISITING”** = remains toxic for more than 8 hours. **DON'T APPLY TO FLOWERING PLANTS!**

2. “ACTIVELY FORAGING” or **“ACTIVELY VISITING”** = remains toxic for less than 8 hours **ONLY APPLY IN THE EVENING WHEN BEES ARE NOT ACTIVE!**

4. GENERAL AND CROP-SPECIFIC USE DIRECTIONS
Newer labels have **additional precautions** for using products around honey bees. Here you will find what practices to follow to keep bees safe and/or **restrictions around whether a pesticide can be applied around crop bloom time**. Instructions **may apply to all crops, or include crop-specific restrictions**. The label may also specify a value **RT25**, a measure of the time that field weathered residues remain toxic to bees on contact with foliage.

www.pollinator.org/pesticide-education

Graphic by Iris Kormann and Andony Melathopoulos - Oregon State University; Rose Kachadoorian and Gilbert Uribe - Oregon Department of Agriculture
Text on reverse of card by the NAPPC Pollinator Health Task Force

Source: AMCA Newsletter, Fall 2022, Vol 51, Issue 4, Technical Adviser Report by Daniel Markowski, PhD

3) AMCA Comments on a Petition to EPA Requesting that Tolerances be Revoked and Registrations Canceled for Certain Organophosphate Uses.

The submission introduction states, “Due to the intricacies of mosquito control applications and the considerable uncertainty documented in the Petition, AMCA is concerned that the revocation of all food tolerances and food uses of the listed OPs could have far-reaching impacts on our member’s ability to fully execute their roles outlined in the National Public Health Framework for the Prevention and Control of Vector-Borne Diseases recently released by the Centers for Disease Control and Prevention.”

There were 199 comments submitted in total, 90% of them were in support of continuing the tolerances and registrations of the organophosphates in question.

Source: AMCA Bi-Weekly News, October 6, 2022

4) AMCA Provides Operational Expertise for Emergency Response

AMCA recently added an emergency response supplement to the Best Practices for Integrated Mosquito Management. This document is possible due to the hard work of many AMCA leaders and members, and the continued support from the CDC’s Division of Vector-Borne Diseases.

Multiple federal agencies are working together on a strategy to implement the National Framework to Prevent Vector-borne Diseases in Humans mentioned above. Consistent with AMCA’s mission, we were pleased to provide expertise in disease prevention and control of vectors, in this case specifically to “develop and evaluate tools and processes for responding to public health emergencies,” one of the goals of the National Framework.

Emergency Response Manual:

https://cdn.ymaws.com/www.mosquito.org/resource/resmgr/docs/publications/amca_emergencyresponse_2022.pdf

Source: AMCA Bi-Weekly News, October 6, 2022

5) Pesticide Registration Timeline Announced

The EPA is working to address a mounting pile of proposed pesticide registrations, meanwhile the deadline to complete FIFRA registration review for 726 pesticide cases registered before October 2007 was October 1st, 2022. The EPA announced that even though they did not meet the deadline, pesticides without finalized reviews will remain on the market and can be used according to the product label. The Agency plans to release a work plan in November covering Endangered Species Act (ESA) mitigation measures.

Source: AMCA Bi-Weekly News, October 6, 2022



Veseris means greater impact for you and your community.

As demand for mosquito control services grows, pest management professionals are turning to Veseris to expand their offerings and drive business forward.

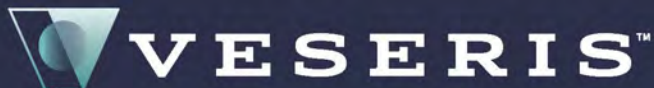
Along with mosquito control essentials and customer favorites like MasterLine Kontrol, we deliver the insight, services, and support you need — where and when you need them.

Reach out to our experts for local advice and nationwide distribution. Veseris is ready to help you get started.

Larvicides | Adulticides | Foggers | Barrier Treatment Products | And More

Learn how Veseris can positively impact your community.

Visit [PestWeb.com/markets/public-health](https://www.pestweb.com/markets/public-health) or call 800-609-9414 to speak to a rep today.



2022 Mosquito-Borne Disease Update



TEXAS
Health and Human
Services

Texas Department of State
Health Services

2022 DSHS Arbovirus Activity Report
Week #46 (November 19, 2022)
Report Date: November 22, 2022

Table 1. 2022 Arbovirus Activity Summary, Texas, Week 46

Arbovirus	Mosquito Pools	Avian	Veterinary	Sentinel Chicken	Human					
					Febrile Illness	Neurologic Illness	Severe Dengue	TOTAL (HUMAN)	Deaths	PVD ²
California Serogroup ¹								0		
Chikungunya								0		
Dengue					28			28		
Eastern Equine Encephalitis			1					0		
St. Louis Encephalitis	2							0		
West Nile	405	1	8		3	25		28	4	11
Zika								0		
TOTAL REPORTS	407	1	9	0	31	25	0	56	4	11

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

²PVD - 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. 2022 Aedes-Associated Arbovirus Activity by County†, Week 46

County	CHIKV		DENV*		ZIKV		
	M	H	M	H	M	H	PVD
Cameron				1			
Collin				3			
Dallas				7			
Ector				1			
Harris				1			
Hays				1			
Montgomery				1			
Tarrant				4			
Travis				6			
Williamson				3			
Total Number of Reports	0	0	0	28	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 2022, WNV and St. Louis encephalitis (SLE) have been detected in Texas. Travel cases of Dengue Fever have also been reported. For more, go to: [DSHS Arbovirus | Weekly Activity Reports \(texas.gov\)](https://www.dshs.texas.gov/idcu/disease/arboviral/weekly-activity-reports)



TMCA SPRING WORKSHOP

April 12, 2023

San Antonio, TX

Register for meeting at www.TexasMosquito.org

Workshop to be held at

San Antonio

Botanical Gardens

555 Funston Pl, San Antonio, TX 78209

CEU class free for TMCA Members

\$100 fee for non-members



Rooms available at

The Emily Morgan Hotel

705 E Houston St

San Antonio, TX 78205

Group Rate: \$124 + tax per room/night



Social at The Emily Morgan Hotel

April 11th 5:00-7:00pm

Please make room reservations DIRECTLY with hotel by calling

210-225-5100 by Friday, March 17, 2023

and reference group name:

TEXAS MOSQUITO CONTROL ASSOCIATION

Valid Overnight Dates for group rate are 4/11-13/23.

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