

TEXAS MOSQUITO CONTROL ASSOCIATION NEWSLETTER

Volume 39

November

2019



TMCA Young Professionals (L to R Aubrey Paolino, Erin Plaisance, and Elaine Chu) rocked the TMCA Annual Meeting with Experience Timelines, a Mosquito Guessing Contest, a Student Paper Competition, a YP Dinner, and multiple professional presentations. Way-To-Go TMCA YPs! *Photo by Bill Sames.*

Editor – James Garcia

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

Oct 2019-Oct 2020 Texas Mosquito Control Association Board of Directors

President	Salvador Rico	Harris County PHES Mosquito Control Division, Houston, TX
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Past President	Mike Nichols	Target Specialty Products, Houston, 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 2019-Oct 2020 Texas Mosquito Control Association Standing Committees

Legislative	Mike Nichols, Chair	R. Duhrkopf
Membership	Greg Marciniak, Chair	M. Nichols, M. Johnsen
Program	Nina Dacko, Chair	Board of Directors
Publicity/Newsletter/Media	Nina Dacko, Chair	J. Garcia (Chair, Newsletter Subcommittee), M. McNairn (Chair, Website Subcommittee), S. Rico (Chair, Social Media Subcommittee), M. Nichols, P. Prather, W. Sames, S. Sawlis
Scholarship & Awards	Jeff Flosi, Chair	R. Duhrkopf

Oct 2019-Oct 2020 Texas Mosquito Control Association Special Committees

Auditing	Mike Nichols, Chair	M. Johnsen, P. Beebe, C. Fredregill, W. Sames
Constitution, By-laws & Resolutions	William Sames, Chair	W. Becker, M. Nichols, S. Sawlis
Financial Support	Patrick Beebe, Chair	J. Flosi, M. Nichols
Local Arrangements	Rick Duhrkopf, Chair	S. Swiger, P. Prather
Nominating	Mike Nichols, Chair	R. Duhrkopf, J. Flosi, S. Sawlis
Young Professionals	Eleanor Kirkscey, Chair	E. Chu, K. Dye-Braumuller, K. Haydett, E. Plaisance, S. Peper
Systematics	Jeff Flosi, Chair	R. Duhrkopf, W. Sames
Workshop CEU's	Rick Duhrkopf, Chair	J. Flosi, M. Nichols



Salvador Rico

Message from El Presidente Salvador Rico

It is truly an honor and privilege to serve as President of the Texas Mosquito Control Association. I follow the path of many fine individuals before me from varying aspects of our industry who have served this organization with integrity and dignity. I sincerely express my appreciation to my esteemed colleagues at the TMCA for allowing me the honor to serve as TMCA President.

Thanks to my predecessor, Mike Nichols for doing a fabulous job as President for his 2nd. go-around as President and for moving our organization in a forward direction. I also direct attention to 2 members who have profound wisdom about our organization and mosquitoes (as well as other important vectors). Rick Duhrkopf (Baylor University) and Jeff Flosi (University of Houston Downtown)! Both gentlemen recently retired from their respective institutions of higher learning and both faithfully served as TMCA President for a couple of terms each. Rick is our outgoing TMCA Treasurer and Jeff remains as a Committee Chair for

the Scholarship and Awards and Systematics Committees. I wish them well in their retirement and thank them for their dedicated service to the TMCA.

With every organization, recruitment and membership for the TMCA has its strong and weak cycles, so I want to focus on having a positive and steady recruitment process for the TMCA. Off and on through the years, some members (and industry) have had complaints about this or that (ranging from policies, procedures, processes, content or personnel). I, like so many of us would hurl the sentiment too but... Never wanted to get involved. "Oh no, not me", I said. I don't want to get involved because I don't have the time to do that kind of stuff. Yes, I was just like so many of us! I didn't want to hassle with it!

What changed my mind? In 1999, TMCA Board member, Rick Duhrkopf, and the American Mosquito Control Association (AMCA) President, Dr. David Dame, approached me about doing the audio visuals for the AMCA Annual Meeting which is held every spring in major cities across the United States. After much thought, I accepted the position to be their A/V person. That relationship lasted for 14 years.

Leading up to now; for the TMCA. About 8 years ago, board members Chris Fredregill and Mark Johnsen approached me in a BBQ joint and asked me, like so many other TMCA board members before them (whom I consistently turned down), about joining the Texas Mosquito Control Association. Except, this time I felt something from within telling me... "It's Time." Before this, I never thought that a "Field Guy" like myself would ever be worthy to one day lead a distinguished association such as the TMCA?

If there is one thing I've learned while serving on the board of directors, it is this: your association is only as good as its leadership and members! Our association has the best people in the industry and academia; people with talent and skill. Our focus and determination will help guide us through as we positively move forward. So, just to cover some of the strides we've made... In the past year, we established a Young Professionals (YP) program modeled after the AMCA's YP program. We just launched a new TMCA website. We re-established a Local Arrangements Committee, that is already planning/working on establishing future meeting dates to help our members better plan for travel. We collaborated with and we have a great new relationship with Texas AgriLife to showcase our organization to those who are just finding out about us and may consider becoming members. Our dedicated TMCA board members are eager to improve our association and make every conference as enjoyable and educational as possible.

Positive recruitment and membership are valuable to the TMCA. I invite you to inquire and join a committee or to contribute something to the newsletter, website, or FaceBook page. We encourage you to join us and be the difference. Let us attract the next generation of mosquito and vector professionals and make the Texas Mosquito Control Association the best place to network and fellowship.

TMCA Administrative Notes

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

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

American Mosquito Control Association Annual Meeting, March 16-20, 2020, Oregon Convention Center, Portland, OR.

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

TMCA Board of Directors - October 2019 – October 2020



L-R seated: Megan McNairn-Director; Megan Wise de Valdez-Secretary; Nina Dacko-1st Vice President; Rick Duhrkopf-Treasurer; Standing L-R: Greg Marciniak-President Elect; James Garcia-2nd Vice President; Mike Nichols-Past President; Salvador Rico-President. Not pictured: Patrick Prather-Director. Photo by Bill Sames.

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CONTINUOUSLY
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**ALTOSID® P35, THE EASY-TO-USE,
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2019 TMCA Annual Meeting Vendor Support

The companies listed on these pages exhibited at the TMCA Annual Meeting in Waco. Sponsoring companies are acknowledged in parenthesis. Please remember those who support TMCA when you seek mosquito surveillance and control products.

Photos by Bill Sames.



Linda Glover for Frontier Precision.
(Exhibitor, Sponsored Coffee Break)



Candace Royals for Valent BioSciences
(Exhibitor, Co-Sponsored Breakfast)



Dean May for AMVAC.
(Exhibitor, Contributing Sponsor, Sponsored Coffee Break, Sponsored Young Professionals)



Peter Cianchetti for VDCI.
(Exhibitor, Sponsored Coffee Break)



Gary Ross for Central Life Sciences.
(Exhibitor)



Seth Egan for Co-Diagnostics Inc.
(Exhibitor)

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Photos by Bill Sames.



Tony Perez and Keith Haas for Univar Solutions.
(Exhibitor, Sponsored Lunch Buffet)



Colton Cooper for ADAPCO.
(Exhibitor, Sponsored Keynote Speaker, Co-Sponsored Breakfast)



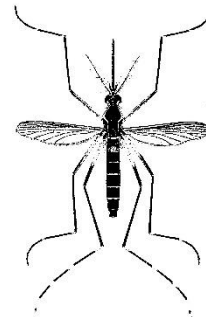
Doug Carroll for Clarke Mosquito Control Products.
(Exhibitor, Contributing Sponsor, Sponsored Hospitality Hour)



Donnie Powers for FMC (Fyfanon).
(Exhibitor, Contributing Sponsor)



Mike Nichols for Target Specialty Products.
(Exhibitor, Contributing Sponsor)



TMCA Young Professionals Student Paper Competition



First Place – Grace Pruett, Department of Biology, Baylor University, Waco, TX (L to R: TMCA Young Professional, Erin Plaisance, presenting 1st Place Certificate/check to Grace Pruett)



Second Place – Robert Huff, Department of Biology, Baylor University, Waco, TX (L to R: TMCA Young Professional, Erin Plaisance, presenting 2nd Place Certificate/check to Robert Huff) *Photos by Salvador Rico.*

2019 SCHOLARSHIPS AND AWARDS

Three scholarships were awarded at the TMCA Annual Meeting in Waco on October 10th. All three recipients work under the direction of Dr. Steve Presley in the Department of Environmental Toxicology, Texas Tech University, Lubbock, Texas. The Jimmy K. Olson Memorial Scholarship was awarded to Bianca Rendon. She is a Ph.D. candidate studying the mechanism of resistance in *Aedes aegypti* and *Aedes albopictus* populations. Unfortunately, Bianca was not able to attend the meeting and hence was not pictured. The TMCA James “Gus” Foyle Memorial Scholarship was awarded to Gabriela McConnel, a Master of Science student studying insecticide resistance in populations of *Aedes aegypti* and *Aedes albopictus* in multiple Texas counties. The James D. Long Undergraduate Scholarship was awarded to Samantha Luna, who will be assisting the other two winners with research on insecticide resistance in *Aedes aegypti* and *Aedes albopictus* populations.



Dr. Rick Duhrkopf presenting the James “Gus” Memorial Scholarship to Gabriela McConnel.



Dr. Rick Duhrkopf presenting the James D. Undergraduate Scholarship to Samantha Luna.

TMCA Young Professionals Mosquito Guessing Contest

To encourage a little friendly competition, the TMCA YPs put a “pool” of adult mosquitoes into a collection bag and asked TMCA members to guess how many were in there. Remarkably, the top three winners were tightly grouped around the 1309 adults in the bag. Bill Sames took third place with a guess of 1250; Megan McNairn took second place with a guess of 1275, and Tasheka Dillon took first place with a guess of 1332.



Aubrey Paolino presenting 1st, 2nd, and 3rd place to Tasheka, Megan, and Bill. *Photos by Salvador Rico.*

TMCA Award for Meritorious Service and Life Member Designation

During the TMCA Business Meeting, the TMCA presented the Award for Meritorious Service to Dr. Jeff Flosi and Dr. Rick Duhrkopf for their years of dedicated and exemplary service to the Texas Mosquito Control Association. Both served 2 terms as TMCA President, which meant they served on all other Board positions on their way to the top and were instrumental in the annual business dealings of the organization even when they were not on the Board. Dr. Flossi served as the Committee Chair for the Scholarship and Awards, and the Systematics Committees. Dr. Duhrkopf served for many years as the TMCA Treasurer and was responsible for acquiring locations for the Spring Workshops and Annual Meetings. At the 2018



Annual Meeting, both were designated as Honorary Life Members.

The TMCA also recognized the years of exceptional service to the TMCA and to the Texas mosquito control industry by designating Brian McFall as an Honorary TMCA Life Member. Brian too served on the Board of Directors and a term as President.

(Photo L to R) Dr. Rick Duhrkopf receiving the Award for Meritorious Service from TMCA President Salvador Rico. Unfortunately, Dr. Jeff Flosi and Brian McFall were not present to receive their recognition.

New TMCA President, Salvador Rico, and New Director, Megan McNairn, Transition at TMCA Business Meeting

At the TMCA Business Meeting on October 9th, members of the Board were nominated for the next higher position in the Board and were elected by the membership for those positions. Salvador Rico took over the reigns as TMCA President from outgoing President Mike Nichols, and Megan McNairn was nominated and elected to serve on the TMCA Board of Directors as a Director. The current Board positions are listed on page 2 of this newsletter.



TMCA President Salvador Rico presented Mike Nichols with the much-prized Presidential plaque as a Thank You for service as the Oct 2018-Oct 2019 TMCA President. Megan McNairn of The Woodlands was elected to serve as a Director. *Photos by Bill Sames.*

ADAPCO Keynote Speaker – Joseph M. Conlon

“Enemies at the Gate: Mosquito Control, More Important Than Ever”



Joe Conlon receives the ADAPCO Keynote Speaker Award from ADAPCO Representative Colton Cooper.

Photo by Salvador Rico.

Joe Conlon, US Navy Medical Entomologist (retired) and Technical Advisor to the American Mosquito Control Association, was this year's ADAPCO Keynote Speaker. He spoke about current shifts in protecting the American public from the ravages of mosquito borne diseases. Early Americans were faced with devastating outbreaks of Yellow Fever and malaria and yes, tens of thousands died. Armed with the knowledge that mosquitoes vector diseases and that controlling the mosquito would lead to diminished disease levels, those 2 diseases, other than travel related cases, were eliminated from the United States by the 1950s. But that was not the end of the story.

Other mosquito borne diseases became the focus of public health personnel. Dengue and dengue

hemorrhagic fever, and a few viruses (Zika, WNV, EEE, WEE, VEE, SLE, CE, Chikungunya, etc.) became the focus. The recent spread of Zika and chikungunya viruses into the Americas further demonstrated that increased world travel and migration of large numbers of people had the potential to spread diseases from one region of the world into others. These diseases may not only affect human health but may affect other animal health (such as livestock), which could result in severe economic loss.

In his presentation, he mentioned the introduction and apparent establishment of two exotic mosquito species in southern Florida: *Aedeomyia squamipennis* and *Culex panocossa*. Both species have vector potential but are not expected to reach Texas. However, since Texas borders Mexico to its south and is involved in international trade through its Gulf Coast, through items trucked overland from ports on the eastern and western US coasts, and from the natural spread of introduced species (will *Aedes japonicus* get to Texas or is it already here?), mosquito surveillance and control personnel in Texas need to remain vigilant to the potential introduction of exotic species into this state. If you find an unusual mosquito or population of mosquitoes, please contact Dr. Bethany Bolling, Texas Department of State Health Services, Laboratory Services Section, Arbovirus-Entomology Laboratory at 512-776-2442. A fast response may allow it to get eradicated before it can establish and spread.

Heads Up! The Next Annual Meeting is a Joint Meeting Between the TMCA and LMCA: Lake Charles, Louisiana – December 2020!

It has been about 20 years since the last joint meeting between the Louisiana and Texas Mosquito Control Associations, but both organizations see the benefits of collaborating on meetings in Louisiana (December 2020) and in Texas (December 2021). The meeting in Louisiana will be in Lake Charles at a site to-be-determined in December 2020. The Louisiana mosquito season lasts into November, so the December meeting date allows their members to attend. For TMCA members, let your supervisors and/or budget people know about this meeting and ensure they will fund your attendance at the meeting in Louisiana. There will be a Keynote Speaker and several invited presentations from cutting-edge control/surveillance/research experts across the country. The December 2021 Annual Meeting will be in Texas at a site to-be-determined.

TMCA Special Section: Enhancing Mosquito Control Capacity for Response to Natural Disasters



Dr. Whitney Qualls moderated the Special Section. *Photo by Bill Sames*

Dr. Whitney Qualls, Medical Entomologist, Zoonosis Control Branch, Texas Department of State Health Services, moderated a Special Section at the TMCA Annual Meeting. The section was entitled “Enhancing Mosquito Control Capacity for Response to Natural Disasters” and was created to inform the TMCA membership about CoAg funding used to enhance mosquito programs across the state.

In 2017, Hurricanes Harvey, Irma, and Maria devastated the Gulf Coast regions, Florida, and Puerto Rico, and caused a combined 265 billion dollars in damages. These three hurricanes rank in the top six costliest hurricanes in history. In response, the United States Center for Disease Control activated its cooperative agreement to aid in response, recovery, preparation, mitigation, and other expenses related to these hurricanes.

Areas impacted by these hurricanes were invited to apply for funds under the 2017 Hurricane Crisis Cooperative Agreement (Hurricane Crisis CoAg) to build capacity in several public health areas directly related to Harvey, Irma, and Maria.

The Texas Department of State Health Services under the Hurricane Crisis CoAg received more than \$6,000,000 to use towards increased public health capacity and to aid in recovery for vector control projects related to Hurricane Harvey. Funds have been used to increase state and local capacity. At the local level funds were contracted to local health departments and mosquito control districts throughout jurisdictions impacted by Hurricane Harvey.

Twenty-eight contracts were awarded to local programs throughout areas impacted by Hurricane Harvey. Contracts were used to replace mosquito control and surveillance equipment, fund increased efforts in surveillance and control efforts, and evaluate new methods in an operational capacity.

In the special symposia six of those who received funding presented on how their programs utilized the funds. The titles of the presentations and speakers were: “Mosquito Apocalypse: Post Disaster Activities in Aransas County” by Valerie Gonzalez, Aransas County Environmental Health; “Corpus Christi Nueces County Public Health District Mosquito Surveillance Lab” by Isidoro Prado, Nueces County Public Health District; “Increasing Capacity to Respond to Disasters and Mosquito-borne Disease Through the 2017 Hurricane Crisis CoAg Grant” by Chris Fredregill, Harris County Public Health Mosquito and Vector Control Division; “Cameron County Public health and Hurricane Crisis CoAg Funding” by Martin Reyes Jr., Cameron County Public Health Program; “Enhancing Vector Control Through Crisis Cooperative Agreement Funding in Victoria County” by Jill Turner, Victoria County Public Health Department.

2019 TMCA Annual Meeting Pictures *by Salvador Rico!*



2019 TMCA Annual Meeting Pictures by Salvador Rico!



2019 TMCA Annual Meeting Pictures by Salvador Rico!



2019 TMCA Annual Meeting Pictures by *Bill Sames!*



2019 TMCA Annual Meeting Pictures by *Bill Sames!*



TMCA Spring Workshop – March 11-12, 2020

**The Double Tree Suites by Hilton McAllen, 1800 South 2nd Street, McAllen, TX, 78503
 Phone: 877-214-6725; Group Name: Texas Mosquito Control Association; Rate: \$96 per
 night, single or double; Reservation Cut-Off Date: February 21, 2020**

Booking Link:

https://secure3.hilton.com/en_US/dt/reservation/book.htm?inputModule=HOTEL&ctyhocn=MFEDTDT&spec_plan=CDTTMC&arrival=20200310&departure=20200312&cid=OM,WW,HILTONLINK,EN,DirectLink&fromId=HILTONLINKDIRECT



What's in McAllen?

Things to see and do: <https://www.visitmcallen.com/p/things-to-do>

Dining: <https://www.visitmcallen.com/businesses/eats-drinks>

Shopping: <https://www.visitmcallen.com/businesses/shopping>

Special Event: Rio Grande Valley Polo Match & Hot Air Balloon Festival, March 13-14

PROGRAM - 2020 TMCA Spring Workshop March 11&12, McAllen, Texas

Tuesday (afternoon), March 10

4:00-10:00 **Exhibitor Set Up**
 5:00-7:00 **Early Bird Social**
 7:00 **Board of Directors Meeting**

1:30 ELEMENTS OF INTEGRATED MOSQUITO CONTROL
 2:30 **Break**
 3:00 CHEMICAL CONTROL
 3:45 EQUIPMENT CALIBRATION
 4:00 SAFETY AND HANDLING OF CHEMICALS

Wednesday, March 11

7:30-8:30 **Breakfast**
 8:00-12:00 **Registration**
 8:30-12:00 **First Program Series**
 8:30 WELCOMING
 REMARKS/INVOCATION
 8:45 WORKSHOP INTRODUCTION – INTEGRATED PEST MANAGEMENT MOSQUITO BIOLOGY
 9:00 **Break**
 10:00 MOSQUITO-BORNE DISEASES
 10:30 EXHIBITOR INTRO/PRESENTATION
 11:45 **Lunch**
 12:00-13:00 **Second Program Series**
 1:00-4:00 SURVEILLANCE

Thursday, March 12

7:00-8:30 **Breakfast**
 8:30-11:30 **Third Program Series**
 8:30 PUBLIC RELATIONS
 9:00 INSECTICIDE RESISTANCE
MANAGEMENT
 9:30 PUTTING IT ALL TOGETHER – THE PLAN OF ACTION
 10:00 **Break**
 10:30 ROUND TABLE QUESTIONS & DISCUSSION
 11:00 UPDATE ON RULES AND REGULATIONS
 12:00 **Adjourn Workshop Program**

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.

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