



NORTH TEXAS SECTION OF THE WATER ENVIRONMENT ASSOCIATION OF TEXAS

Preserving & Enhancing the Water Environment of Texas

Volume 29, Number 5

January 2017 Newsletter

January 2017 Lunch Meeting

Date: Thursday, January 19, 2017

Location: Southside WWTP— 10011 Log Cabin Rd., Dallas, Texas 75253

Time: 11:45 A.M.—12:00 P.M. Social Hour
12:00 P.M.— 1:00 P.M. Lunch and Presentation

Presentation Title: “Struvite/Vivianite: Scale or Recovery”

Presenters: Corinne Duckworth— Carollo Engineers; Leslie Castillo, P.E.— Dallas Water Utilities

Presentation Synopsis:

Dallas Water Utilities (DWU) plant staff discovered a problem of precipitation in their digester piping and suspected vivianite was the culprit. DWU partnered with Carollo Engineers to study why and where the vivianite was forming. This presentation will discuss the methods used to investigate the problem, the underlying causes, and the changes implemented to address the vivianite.

Two technologies were used to investigate the problem: thermal imaging and MINEQL+ modeling. MINEQL+ is a chemical equilibrium model for simulating aqueous speciation and precipitation-dissolution. The thermal imaging was used to pinpoint the actual locations of vivianite scaling in the piping and fittings. The MINEQL+ modeling software was then used to confirm where vivianite is currently precipitating and to assess the impacts of proposed changes to the plant's treatment process and operations.

Potential solutions focused on managing the location of vivianite precipitation rather than allow vivianite scaling to occur in unwanted/inaccessible locations. Based on the findings of this study, DWU is now currently re-routing the digester piping to avoid vivianite scaling.

Thank you to our Sponsors!!!

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Leadership Message - by Brigit Buff

Dear WEATies-

Happy 2017!! I hope you all had a very pleasant winter holiday and were able to spend time with your families (let's be honest, get a much needed break from us :)). Last year was definitely a crazy year of ups and downs for many of us, and we look forward to the new plans of 2017. As each of you plan out your new year's resolutions, we would like to hear from each of YOU on what you think WEAT's resolutions should be for this year to its members. How can we serve you, our members, our community, and our industry better in 2017?

Our WEAT-NTS Executive Committee is ready to hit the ground running with our upcoming spring events:

First up, we have our January lunch meeting on January 19 to kick off our first get together of the year. This meeting will be held at the Dallas Southside Plant (location information on the first page of the newsletter) and will focus on "Stuvite/Vivianite: Scale or Recovery".

Our February Seminar is fast approaching and will be held at CityPlace in Dallas on Valentine's Day, so let's cross our fingers for pleasant weather (unlike some of our past slippery seminars).

Lastly, we have our March dinner meeting on March 16, followed by our Sporting Clays event on March 17 to look forward to before our brief hiatus for Texas Water!

More information on each of these events are included in this newsletter issue and will also be detailed more in upcoming e-mail blasts to our membership.

As always, we look forward to seeing you at each of our upcoming events and receiving your honest feedback on how we are doing. We are always looking for volunteers to help serve on our committees, so feel free to reach out directly to the committee chairs listed on the last page of this newsletter or on our website to let us know your interests. We would love to have you join our team! Let's make 2017 a great year for WEAT!

Until next time,

Brigit Buff, WEAT-NTS President



REGISTER TODAY!

2017 February Seminar

February 14th, 2017

**Location: CityPlace Conference
& Event Center**

2711 North Haskell Avenue

Dallas, Texas 75204



CLICK HERE TO REGISTER:

<https://form.jotform.com/62944252380153>

WEAT ANNOUNCEMENTS

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WEAT-NTS 2016 - 2017 Calendar of Events

Date	Event	Location (*Tentative)	Topic/Speaker (*Tentative)
1/19/17 (Th)	January LUNCH Meeting	DWU Southside WWTP	Vivianite Mitigation; Leslie Castillo and Corrine Duckworth
2/14/17 (Tu)	February Seminar	CityPlace, Dallas, TX	What's New in Wastewater?
3/16/17 (Th)	March Dinner Meeting	Texas Star, Euless, TX	TBD
3/17/17 (Th)	Sporting Clays Event	Dallas Gun Club, Lewisville, TX	7:30 AM to Early Afternoon
5/18/17 (Th)	May Plant Tour Dinner	TBD	TBD
7/20/17 (Th)	July Dinner Meeting	TBD	TBD

INTERESTED IN MENTORING/EDUCATING?

Are you interested in educating college students about our industry? Contact Jason Crawley at jkc@freese.com to speak at Universities and Colleges around the state!

It's Easy to Join Our Mailing List...

We will e-mail you our newsletter, organization announcements, and other relevant information. Just send your email address by text message:

Text **WEATNTS** to **22828** to get started!

Thank you to our Sponsors!

Interested in having an ad on this page?

Find information on sponsorship at <https://squareup.com/market/weat-nts> and support this organization. If you would like more information please contact Mark Perkins at mperkins@perkinsconsultants.com

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Preserving & Enhancing the Water Environment of Texas

WEAT-NTS offers three levels of sponsorships for the July 2016 – June 2017 year, plus multiple individual sponsorship opportunities.

Sponsorships will support:

- *WEAT-NTS and Darryl Hall Scholarship Funds*
- *Dinner Meetings*
- *Section Activities (Fall BBQ and Sporting Clays Tournament)*
- *February Seminar*
- *Young Professionals*
- *Outreach Program (Science Fair, Future Cities, Trinity River Cleanup, etc.)*

Other Individual Sponsorship Opportunities:

Classic Dinner Sponsor \$250

- For *One* Dinner Meeting
- Recognition of Classic Sponsors:
 - ✓ Announcement on front page of newsletter (name of firm)
 - ✓ Announcement in meeting reminder emails (name of firm)
 - ✓ Display of digital banner at meeting (if supplied) via PowerPoint
 - ✓ Verbal recognition of sponsors by President at the beginning of the meeting

Gold Sponsor \$1,250

- Recognition at **ALL** six meetings (includes Fall Cook-off) (*for the price of five*)
- Recognition of Gold Sponsor is the same as Classic Sponsor at **ALL** six meetings

○ Opstoberfest BBQ Cook-off Sponsor	\$250
○ Sporting Clay Station	\$150
○ WEAT- NTS Scholarship Fund (annual contribution)	\$100
○ Darryl Hall Scholarship Fund (annual contribution)	\$100
○ Newsletter Advertising (6 issues) and website link	\$150
○ NTS February Seminar	\$300
○ NTS February Seminar Table Sponsor	\$500
○ NTS February Seminar Break Area Sponsor	\$1,000
○ NTS Young Professionals Sponsor	\$100

Platinum \$1,950

- Recognition as a platinum sponsor at **ALL SIX** meetings, including the fall BBQ
- Recognition of Platinum Sponsor is same as Gold Sponsor, *plus*:
 - ✓ Company name included in all newsletters, meeting announcements, meeting reminder e-mails, and link on website
 - ✓ Display of digital banner at meeting (if supplied) via PowerPoint
 - ✓ Recognition of Platinum Sponsor by President at the beginning of the meeting
 - ✓ Includes February Seminar sponsorship, with signage and digital banner recognition at Seminar
 - ✓ **NEW!** Recognition as YP sponsor, with \$100 from sponsorship being earmarked toward local YP events



Redeem the Stream 2016

WEAT-NTS hosted the 2nd annual Redeem the Stream – a cleanup of the Elm Fork Green Belt of the Trinity River on November 12. Early Saturday morning, over 50 volunteers picked up, 5,508 lbs. of trash, about 367 bags!



NOVEMBER MEETING RECAP

By Heather Wootton

Regional CMOM Program – North Texas Municipal Water District

The November WEAT-NTS lunch meeting was held November 17th at Texas Star, Euless. Jenna Covington, Assistant Deputy Director – Wastewater for North Texas Municipal Water District, presented on their recent Regional CMOM program. NTMWD, along with twelve regional wastewater members Allen, Forney, Frisco, Heath, McKinney, Mesquite, Plano, Princeton, Prosper, Richardson, Rockwall, and Seagoville (a.k.a. the Communities), underwent an EPA inspection of their sanitary sewer systems. NTMWD's wastewater workgroup developed a collaborative approach that included creation of a model CMOM outline, model CMOM (with annotated guidance for each sections), Collaboration Strategy Guidelines for how the group would work together and make decisions, and monthly meetings to work through regional coordination issues and track progress on CMOM development by entity and CMOM section. The approach fostered collaboration while ensuring the independence of each entity per the structure of their contractual relationships. Thanks to all who came to hear about the unique approach to CMOM collaboration, major elements of the Regional CMOM Coordination plan and District CMOM plan.



The next WEAT-NTS meeting is to be held January 19th at the DWU Southside WWTP.

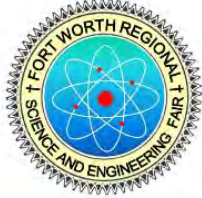

PUBLIC EDUCATION AND OUTREACH VOLUNTEER OPPORTUNITY

Dallas and Fort Worth Regional Science Fair Judging

WEAT and AWWA will again be supporting the Dallas and Fort Worth Regional Science Fairs this year and serve as Special Award Judges; as such, we are asking for twenty (20) volunteers for each event.

- Volunteering usually runs from 8:00 am to noon the day of the event, and consists of judging water and environmental related projects.
- The fair is both a high quality competition and exhibition for the best middle and high school research projects in the north Texas region; over one thousand exhibitors are expected.
- Please volunteer and help support awareness and water environment education for students in our region!

Please note that the Dallas and Fort Worth Regional Science Fairs are held at separate locations and dates. For those interested in serving as volunteer judges, please contact the individuals listed below for each fair.

Regional Science Fair	Location	Date	Contact	Contact Info.
<p>Fort Worth</p> 	College Park Center, University of Texas at Arlington	Sun. – Mon. , Feb. 19-20	Amy Robinson	RobinsonAR@cdmsmith.com 817-332-8727
<p>Dallas</p> 	Fair Park, Dallas	Saturday, Feb. 25	Elle Holbrook	Eholbrook@cpi.com 214-640-1769



2017 WEAT-NTS
FEBRUARY
SEMINAR



WHAT'S NEW IN WASTEWATER?

Tuesday, February 14, 2017
CityPlace Conference & Event Center
2711 North Haskell Avenue
Dallas, Texas 75204





WHAT'S NEW IN WASTEWATER AGENDA

2017 WEAT-NTS February Seminar • Tuesday, February 14, 2017

REGISTRATION AND CONTINENTAL BREAKFAST (7:30)

WELCOME AND OPENING REMARKS (8:00)

NEW PROCESSES

- 8:15 Developing the Next Generation of Sequencing Batch Reactors, Energy Positive SBRs
(*Chandra Mysore, PE, Jacobs and Udit Mehrotra, EIT, Jacobs*)
- 8:45 Sidestream and Mainstream Deammonification: An Overview of the Current Technologies
(*Beverley Stinson, PE, AECOM*)

NEW DESIGN TECHNIQUES

- 9:15 BIM Beyond Clash Detection and Coordination - 3D/4D Modeling During Design Improves Safety During Construction and Operations
(*Kristen Barrett, PE, Hazen and Sawyer and Brandt Miller, PE, Hazen and Sawyer*)
- 9:45 More than Just a Pretty Picture: CFD as a Design and Troubleshooting Tool
(*Nick Landes, PE, FNI*)
- 10:15 The State of Cybersecurity in the Water/Wastewater Market
(*Steve Murphy, Signature Automation*)

BREAK (10:45)

THERMAL HYDROLYSIS

- 11:00 Thermal Hydrolysis Comes to CRWS! - Implementation of the First THP Facility in Texas
(*Samir Mathur, PE, CDMSmith and Tom Jacobs, PE, TRA*)
- 11:30 Phosphate Harvesting Options for a Thermal Hydrolysis Anaerobic Digestion Facility
(*Jeff Sober, PE, Garver and Sherri van der Wege, PE, TRA*)

LUNCH (12:15)

NEW WAYS TO MANAGE

- 1:15 Lean Operations & Maintenance - Six Sigma Way
(*Dan Halter, PE, City of Dallas - Water Utilities*)
- 1:45 Program to Enable the Collection of Hydrogen Sulfides in Solution at Strategic Locations
(*Ron Patel, PE, City of Dallas - Water Utilities*)
- 2:15 Embracing New Technologies at VCWRF
(*Ana Julia Peña-Tijerina, PE, City of Fort Worth Water Department*)

BREAK (2:45)

INTERACTIVE PANEL DISCUSSION

- 3:00 *Jenna Covington, PE (NTMWD), Jody Zabolio (UTRWD), Ana Julia Peña-Tijerina, PE (FWWD), Julie Hunt (TRA)*

CLOSING COMMENTS (4:00)

END (4:15)



2017 FEBRUARY SEMINAR
February 14, 2017
CityPlace Conference & Event Center
2711 N Haskell Ave, Dallas, TX 75204

Please send one form per registrant.

REGISTRATION DEADLINE: FEBRUARY 8

Registration Fees: \$120 per person. Includes breakfast, lunch, breaks, and handouts. (Students are free of charge for seminar; student breakfast & lunch ticket is \$30.)

SPONSORSHIP COMMITMENT DEADLINE: FEB. 8

Booth (Table) Sponsor: \$500

- Limited to approximately 15 sponsors.
- Includes one paid registrant (\$120 value) and one six-foot table located in the break area.
- Sponsor's logo will appear on sponsor appreciation posters in the break area, conference handouts, and on a cycling slide show on the main screen in the meeting room prior to the conference and during break times.

Seminar Sponsor: \$300

- Sponsor's logo will appear on sponsor appreciation posters in the break area, conference handouts, and on a cycling slide show on the main screen in the meeting room prior to the conference and during break times.
- Note: Seminar registration (\$120) is not included with this sponsorship level.

SPECIAL SPONSORSHIPS

Breakfast / Morning Break / Afternoon Break Sponsors: \$1,000

- **Limited to first three paid sponsors**
- Fee defrays the cost of refreshments during these break and networking times in the break / exhibit area.
- Special verbal and graphic recognition in the conference meeting room.
- Special posters in the break area during the sponsored break / networking times.
- Sponsorship fee includes a booth / table sponsorship and associated privileges.

OTHER SPECIAL SPONSORSHIPS

- Contact Lance Klement at 214.619.9047 (LPKlement@GarverUSA.com) for details.

ALL SPONSORS ARE ENCOURAGED TO DONATE DOOR PRIZES

SPONSORSHIP COMMITMENT DEADLINE: FEBRUARY 8TH

Contact Tye Jordan at 214.638.0500 (tjordan@cpvi.com), or Scott Hardy at 817.870.2630 (shardy@hazenandsawyer.com) with questions and/or to submit logos.

For more information, visit the seminar page on the WEAT North Texas Section website at www.weat-nts.org.

To register by mail, send the form (above right) with check payable to WEAT-NTS, c/o Rami Issa, AECOM, 1950 N. Stemmons Freeway, Suite 6000, Dallas, Texas 75207 (214.741.7777) before February 8, 2017.

To register and pay with a credit card or SquareUp, visit www.weat-nts.org (the payment link is near the bright red "New!" icon). On the main SquareUp page, **select item (February seminar registration, sponsorship, etc.)** and **Add to Basket**. Be sure to put your name and company as you wish it to appear on your nametag. Deadline is February 8 for registrations and sponsorships.

Please register me for the 2017 February Seminar!	
Name:	
Title:	
Employer:	
Address:	
City, State, Zip:	
Phone:	
E-mail:	
Registration/Sponsorship	Amount
Seminar Attendee Registration @ \$120	
Student Attendee (lunch not included) (no charge)	\$0
Student Breakfast & Lunch Ticket @ \$30	
Seminar Sponsor @ \$300	
Table Display Sponsor @ \$500	
Breakfast & Break Sponsorship @ \$1,000	
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<p>Please specify your name and company as you wish it to appear on your name tag. Sponsors please send a high-resolution logo in .jpg format</p>	

YOUNG PROFESSIONALS

By Kaylee Dusek

WEAT YP's partnered with AWWA to sponsor a happy hour at the Grapevine Brewery in December. Thank you to all who came out for a fun evening of craft beers, food trucks and ugly Christmas sweaters! Stay tuned for more exciting YP events to come throughout the year!



Special Thanks to Charles Norman for serving as our Fort Worth YP Chair, he is stepping down after serving 6 years and enjoyed every minute!

WEAT & WEF AWARDS

STATE LEVEL NOMINATIONS

AWARDS NOMINATIONS ARE DUE BY JANUARY 13, 2017!

WEF ARTHUR SIDNEY BEDELL AWARD

acknowledges extraordinary personal service to the Member Association (WEAT).

WEF GEORGE W. BURKE, JR. AWARD

recognizes municipal and industrial wastewater facilities for active and effective safety programs.

WEF WILLIAM D. HATFIELD AWARD

recognizes operators of wastewater treatment plants for outstanding performance and professionalism.

WEF LABORATORY ANALYST EXCELLENCE AWARD

recognizes individuals for outstanding performance, professionalism, and contributions to the water quality analysis profession.

WEAT LIFETIME ACHIEVEMENT AWARD

recognizes a current or past WEAT member who has demonstrated continual and tireless contributions toward the improvement of the water environment throughout a long, distinguished career in the wastewater treatment industry and in WEAT/WEF.

WEAT PILLARS OF THE PROFESSION AWARD

recognizes an individual with a long and distinguished career in the wastewater treatment or water quality industry who has demonstrated meaningful and substantial contributions toward the improvement of the water environment and who has had a positive impact on the success and growth of WEAT.

WEAT MUNICIPAL WASTEWATER TREATMENT PLANT OF THE YEAR AWARD

acknowledges a municipal wastewater treatment plant in Texas that has consistently exhibited outstanding performance of daily activities beyond the normal call of duty.

WEAT INDUSTRIAL WASTEWATER TREATMENT PLANT OF THE YEAR AWARD

acknowledges an industrial wastewater treatment plant in Texas that has consistently exhibited outstanding performance of daily activities beyond the normal call of duty.

WEAT OUTSTANDING OPERATOR OF THE YEAR AWARD

recognizes a wastewater treatment plant operator (municipal and/or industrial) in the State of Texas who has demonstrated outstanding professionalism at his/her facility and has performed his/her duties tirelessly and with dedication to the betterment of the water environment.

WEAT EMERGING LEADER AWARD recognizes a young WEAT member who has provided outstanding service in support of WEAT.

WEAT MEDAL OF HONOR FOR HEROISM recognizes an individual (or group of individuals) from the State of Texas who has demonstrated exceptional courage and bravery in the performance of a single act of heroic behavior involving the water environment industry.

WEAT SIDNEY L. ALLISON AWARD recognizes a person (or entity) who has made significant contributions to the engineering, science, and/or operation and maintenance of wastewater collection and pumping stations with the mission to transport wastewater to a treatment plant.

WEAT WINFIELD S. MAHLIE AWARD recognizes a person who has made significant contributions to the art and science of wastewater treatment and water pollution control.

WEAT T. L. SATTERWHITE AWARD recognizes an individual, an engineering firm, or an industrial entity for the development of a solution to an industrial wastewater treatment problem.

WEAT RONALD B. SIEGER BIOSOLIDS MANAGEMENT AWARD

recognizes a WEAT member (s), an engineering firm, a specific project, a municipality, or a specific municipal or industrial facility that has made significant accomplishments in the field of biosolids technology and management practices within the boundaries of the State of Texas.

WEAT ALAN H. PLUMMER ENVIRONMENTAL SUSTAINABILITY AWARD

recognizes individuals who have made outstanding contributions in the field of environmental sustainability practices within the State of Texas.

WEAT EXEMPLARY EMPLOYER AWARD

recognizes Texas employers that support and facilitate employee involvement and activities within the WEAT and WEF organizations.

WEAT OUTSTANDING PUBLIC OFFICIAL AWARD

recognizes an elected official or regulator who actively promotes sound science in environmental policy and regulations.

WEAT SUSAN B. HIER AWARD FOR EXCELLENCE IN EDUCATION AND LICENSING

recognizes an individual whose demonstrated passion and service to the operators of Texas.

Full criteria for all awards may be found at www.weat.org/awards.shtml.

For further information and assistance in submitting a nomination, please contact:

WEAT Awards Committee Co-Chairs:

Kim Chanslor, chanslorkm@cdmsmith.com

Randy Bush, Rbush@cpyi.com



JOIN THE

TEXAS RIVER CLEANUP CHALLENGE

MAY 2016 - MARCH 2017



**Please contact your Cleanup
Challenge representative for more
information:
Sharon Miller
smiller@perkinsconsultants.com
Elle Holbrook
eholbrook@cpyi.com
Submission Deadline: March 24, 2017**



NEW HIRES

Perkins Engineering Consultants, Inc. :



Janet Sims has over 20 years' experience with industrial pretreatment program assistance, technically-based local limits development, and assistance with permit acquisition for clients throughout Texas. She will serve clients as a senior project manager, based in Austin, and will significantly enhance the firm's capabilities in assisting clients with regulatory issues.



Justin Angel has recently joined the firm as a graduate engineer. He holds a B.S. degree in Biological Engineering from the University of Arkansas, has two years of experience with water and wastewater projects, and plans to complete a Master of Environmental Engineering degree with the Johns Hopkins University, Whiting School of Engineering, in 2017.

Kennedy/Jenks Consultants:

Nicole Conner, Project Engineer, has recently joined Kennedy/Jenks Consultants in their Dallas/Fort Worth offices. She graduated from Tarleton State University in 2007 with a B.S. in Environmental Engineering, and received a Masters of Engineering degree in Civil Engineering from Texas A&M University in 2011. Nicole is active member of WEAT and AWWA.

B.G. Docktor has also recently joined Kennedy/Jenks Consultants in their Dallas/Fort Worth offices as a lead mechanical designer with over 32 years of experience in the design and construction of pipelines, pump stations and treatment plants. His experience includes extensive work on projects throughout Texas and beyond.



Friday, March 17, 2017
7:30 a.m. to early afternoon

Dallas Gun Club, Lewisville, Texas
Benefiting the WEAT-NTS Scholarship Fund

EVENT DETAILS

The 8th Annual WEAT-NTS Sporting Clays Event will be filled with food, fun, and good old-fashioned competition between friends. Proceeds will benefit the WEAT-NTS Scholarship Fund.

- Suitable for experienced and inexperienced shooters
- Bring your own equipment or rent at the range
- 100 clay targets per participant
- Shells sold separate from registration
- Mulligans or do-overs available for \$5 each and can be purchased on site
- 12 stations, each with two automatic target throwers
- Four shooters per team. Individuals not on a team will be assigned a team at the event
- Barbecue lunch and drinks provided
- Event will be rescheduled only if heavy storms occur
- Shooters age 14 and younger will be accompanied by an adult

PRIZES

Prizes will be awarded to first, second, and third place teams as well as first, second, and third place individuals. Raffle drawings during lunch.

Additional prizes for:

- Most honest team score
- Most honest individual score
- Top female shooter
- Sponsorship recognition award
- Most improved

RULES

For the safety of shooters and bystanders:

- Each station will have a WEAT-NTS volunteer
- Eye and ear protection is mandatory
- Gun breech or actions must be open to show gun is unloaded at all times unless in the cage and ready to fire
- Never load gun until in the cage and ready to fire
- Never load more than two shells in a gun
- No shot size larger than 7-1/2s (7-1/2s, 8s and 9s only)
- Guns must have full stock and minimum 21-inch barrel
- Alcohol is prohibited
- Waiver forms will be required at check-in

Questions or volunteer opportunities contact:

Heather Compton at 214-619-9014 or

HACompton@GarverUSA.com

WHAT IS SPORTING CLAYS?

Sporting clays is “golf with a shotgun.” It is a form of clay pigeon shooting that involves shooting clay targets at multiple locations (stations). Sporting clays targets are thrown in a great variety of trajectories, elevations, and distances. Targets can come through the trees, over your head, left to right, right to left, in any path a real bird might take. The stations are designed to be unpredictable and challenging for the shooter.

Each station has two clay-throwing machines. Targets are thrown in pairs. The number of clay pairs will vary from station to station. The types of pairs will also vary.

Some stations will be “report pairs” (the second target is launched on the report of the shooter’s gun) and others will be “true pairs” (the two targets are thrown simultaneously).

Scoring is simple. Your team will receive one scoring card per shooter, with individual scoring based on 100 shots. For every target you break, the scorer will mark an X in the blank provided; if you miss, you mark an O. The number and type of pairs will vary by station. The high score is determined by the total sum of targets hit.

WEAT-NTS 2016 - 2017 Contacts

Officer	Name	Phone	E-Mail
President	Brigit Buff	972.533.2499	bbuff@ch2m.com
President-Elect	Matt Jalbert	469.475.0922	jalbertm@trinityra.org
Vice President	Mark Perkins	817.719.0372	mperkins@perkinsconsultants.com
Treasurer	Grace Wike	214.765.8731	gdwike@lan-inc.com
Secretary	Phil Spitzer	972.442.5405	pspitzer@ntmwd.com
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Section Rep	Heather Wootton	972.377.7480	HAWootton@GarverUSA.com
Past Section Rep	Erin Flanagan	214.217.2261	erin.flanagan@freese.com
Committee	Chair	Phone	Email
Audit	Matt Jalbert	469.475.0922	jalbertm@trinityra.org
Awards	Nash Reddy	214.920.8166	Nash.reddy@jacobs.com
Constitution/Bylaws	Amy Robinson	817.332.8727	robinsonar@cdmsmith.com
Finance	Grace Wike	214.765.8731	gdwike@lan-inc.com
Fundraising	Heather Wootton	972.377.7480	HAWootton@GarverUSA.com
Communications	Matt Jalbert	469.475.0922	jalbertm@trinityra.org
Historian	Betty Jordan	817.806.1703	bjordan@apaienv.com
Nominations	Eva Gorgi	214.671.2804	eva.gorgi@dallascityhall.com
PWO	Jerry Pressley	817.392.4926	Jerry.pressley@fortworthtexas.gov
Photography	Malcolm Cowdin	972.262.5186	cowdinm@trinityra.org
Programs	Mark Perkins	817.719.0372	mperkins@perkinsconsultants.com
Public Education/Science Fair	Elle Holbrook	214.640.1769	eholbrook@cpyi.com
Scholarship Fund	Chris Young	214.346.4300	chris.young@mwhglobal.com
Seminar	Fred Holmes	817.870.2630	fholmes@hazenandsawyer.com
Website	Andy Paulson	469.619.1241x108	ajpaulson@sig-auto.com
	Nicole Conner	214.288.7609	nicoleconner@kennedyjenks.com
YP - Dallas	Kaylee Dusek	972.377.7480	KPDusek@GarverUSA.com
	Reyna Reyes	214.522.8778	ROReyes@lan-inc.com
YP - Fort Worth	VACANT	VACANT	VACANT
	Elizabeth Holt	214.893.3845	Elizabeth.Holt@jacobs.com