



WATER ENVIRONMENT ASSOCIATION OF TEXAS

Preserving & Enhancing the Water Environment of Texas

NORTH TEXAS SECTION—e-NEWSLETTER

MARCH 2008

Volume 20, Number 2

March Meeting

Date: March 20, 2008
Place: City Place Dallas
Topic: Magnesium Hydroxide—Effects on Alkalinity and WWTP Performance
Social Hour: 5:30 pm
Dinner: 6:30 pm
Tickets: \$15 Members
\$10 Spouses & Guests

Some of the meeting costs have been offset by the following meeting sponsors:

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CDM
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Please call our voice mail reservations number to make your reservations:

**(214) 890-6878 Dallas
(817) 740-5759 Fort Worth**

Speaker

Matthew Madolora, BSCE

Sr. Technical Business Unit Manager—Thioguard
Premier Chemicals, LLC

The Need For Speed: Hyper-loaded Alkalinity and pH Stabilization for Peak BOD and NH₃ Demands—A Study in the Use of Milk of Magnesia for Process Treatment at TRA Denton Creek for Race Week-ends at Texas Motor Speedway

This presentation discusses the use of milk of magnesia at TRA DCRWS to aid in process control during TMS race weekends, which generates extraordinary loadings of BOD and NH₃ in an abbreviated period of time. Included in the presentation are: 1) A comparison of normal vs race weekend data, 2) The basis for the selection of milk of magnesia, over other alkalis, as the preferred alkalinity/pH source to aid in process control during TMS race weekends and 3) A review of other in-plant impacts and applications of milk of magnesia currently under review.

When TMS race weekends began generating BOD and NH₃ influent loadings 3-5 times that of normal plant loadings, the existing AS process biology and chemistry had difficulty keeping up without exceeding effluent quality standards. A series of positive trials using mag-

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This meeting will be a limited registration, first-come, first served.

The May dinner meeting's topic is connected to the Texas Motor Speedway's wastewater discharge issues and there will be a follow-up at the May Dinner meeting.

EDITOR: Dawn Anderson (danderson@cpyi.com)

The WEAT-NTS February Seminar on the proposed TCEQ 217 Rules was very successful thanks to a lot of hard work by many people. Chamindra Dassanayake (CD) organized and coordinated a great group of speakers from the consulting, municipal, and regulatory fields. Most importantly, CD was able to get the very busy Louis Herrin to attend the seminar all day, make an opening and closing presentation and spend a significant amount of time answering questions. His time and input was very valuable to the audience and the many individuals that had all day access to Louis for questions. There was always a small group around Louis asking specific questions and getting his opinion. He was one of the very last to leave, still answering questions while walking out with Donna Long.

Texas Water 2008 comes a little early this year, March 25-28 at the Convention Center in San Antonio. This conference keeps getting bigger and better every year. It is the third largest water / wastewater conference in the nation, only behind the National WEF and AWWA conferences. There will be plenty to do and see; six competition events, golf, young professional activities, plant tours, exhibits, technical presentations and Thursday Night out at the Buckhorn Saloon. Maybe you can clap for someone you know from the North Texas Section who will receive an award this year, like Tom Taylor, John Greer, Steve Head, Lynne Moss, Betty Jordan and the DWU Central WWTP and Upper Trinity Lakeview Regional plant.

March dinner meeting attendees will have an opportunity to be the first to sign-up for May Dinner meeting at the Texas Motor Speedway (TMS). The TMS has a significant treatment impact on the TRA Denton Creek WWTP and the May meeting will include a presentation on how the plant process is aided to treat these peak flows. We will then follow-up with a tour of the TMS at the May meeting, which will include a 100 mph tour of the track.

Our generous sponsors have allowed us to maintain the dinner meeting cost to \$15 dollars while the actual costs are around \$25. Over the years we have offset the losses and not increased the amount by recruiting more sponsors, negotiating costs and sometimes taken away your desert (yes, people noticed that small move). We discussed options (diet plates for everyone, no deserts, lunch meetings), but realize it is time to increase the dinner meeting cost to \$20. Since this is the first you have heard about this, we will stay at \$15 for the March meeting and increase to \$20 at the TMS May meeting. Let me know if you have concerns or suggestions. Remember that volunteer organizations view all suggestions as an acceptance to volunteer, lead and execute the suggestion.

Randy McIntyre
President 2007-2008
WEAT-NTS
(972) 934-3711

Speaker (continued)

nesium hydroxide being performed in Tyler, TX, prompted John Bennett to evaluate the possible use of milk of magnesia to assist him with process difficulties. As the data herein shows, trials at TRA DCRWS proved successful in alleviating the upset conditions of TMS race weekends.

Mr. Madolora has worked in varying capacities for Premier Chemicals including sales and application development of specialty magnesia chemicals in the United States. Working in the specialty chemical market, he has been intimately involved in developing new and innovative applications for magnesia in numerous environmental and commercial industries.

Thioguard[®], *Total System Treatment* for Municipal Wastewater, is among the newest of these specialty applications. While Premier's R&D can be credited with much of the technical verification of Thioguard application, sales and field operations personnel have developed a significant amount of the practical operation data that has made the application of magnesia such a promising new technology for wastewater professionals.

Specific Applied Processes:

- Collection System: FOG abatement, Odors-Sulfide/Organic, Safety, Corrosion
- WWTP: Grease, Odor, Safety, Hydrogen Sulfide, Corrosion, Settling, BOD₅, Heavy Metals, Polymer Use, Flocculation, Chlorination/Dechlorination, Energy, SVI, RAS, TSS, VSS, Digester Gas, Biosolids Quality and Costs

Mr. Madolora has also worked in numerous industrial applications for magnesia including: Wastewater Neutralization, Anaerobic Digestion, Sulfur Emissions, NO_x Emissions, Heavy

Metals Removal, Fertilizers, Oil Drilling Fluids/Muds, Fuel Additives and Boiler and Cooling Water Treatment among others.

Prior to working for Premier, Mr. Madolora served as the Technical Manager for a Central Texas water treatment company that specialized in Boiler and Cooling Water Applications and a proprietary commercial/residential potable line descaling process. As technical manager, he was responsible for development/oversight of specialty blends for unique customer applications in addition to training of field personnel.

Specific Applied Processes:

- Scale Prevention, Corrosion Inhibition, HVAC biocides, Silica Removal, Water Softening, De-ionization, Reverse Osmosis, Hard Water Chemistries, Chemical Descaling, and Potable Water Treatment

As a student at the University of Texas – Austin, Mr. Madolora built on a BS in Chemical Engineering with additional studies in Technology and Environmental Impact, Plant Design and Economics, Product Development and Business and Marketing.

Throughout his post college career he has had a continued membership or participation in: Water Environment Federation, Water Environment Association of Texas (State and Central Texas YP Committees, Manufacturers and Reps Committee, Long Range Planning Committee), Texas Water Utilities Association, Water Quality Association, Association of Water Technologies (Technical Committee), Citrus Water/Wastewater Association, The University of Texas Club, Texas Habitat for Humanity, Big Brothers/Big Sisters, Texas Exes, and AIChE.

Announcements

FROM THE D/FW METROPLEX

WEAT E&IC Committee Technical Seminars

The WEAT Electrical & Instrumentation Committee is finalizing plans for technical seminars being scheduled for the remainder of the year. Preliminary dates and topics are as follows:

21 May	TCEQ's New 217 Rules Regarding Redundant Power
16 July	Green Power / LEED
17 September	Instrumentation
19 November	NEC Changes

In order to foster participation across the Metroplex, the locations for these seminars will vary from time to time. The location and specific agenda for each seminar will be published approximately one month prior to the above dates.

The Mission Statement for the E&I Committee is as follows:

Provide a forum for the electrical and instrumentation professionals within WEAT to promote the education and growth for its members in the design, installation, and maintenance of the electrical and instrumentation systems.

For more information regarding the E&I Committee, contact any of the committee's members:

V. K. Gupta	Gupta & Associates, Inc.
Tim Campbell	Chiang, Patel, & Yerby.
Jeff Hensley	Freese and Nichols, Inc
Rick Hidalgo	Camp, Dresser & McKee, Inc.
George Luke	Chiang, Patel, & Yerby Inc.
Mike Query	Trinity River Authority
Brad Rodgers	Carollo Engineers
Bill Sako	Camp, Dresser & McKee, Inc.
Hossein Shahkarami	Dallas Water Utilities
Robert Williams	Gupta & Associates, Inc.

HDR Engineering Announces Two New Employees

HDR Engineering is proud to announce the arrival of two new engineers to the Dallas office, Ahsan Moeen and Sarah LaCour.

Ahsan is a 10-year water/wastewater engineer who graduated with an MS from Michigan State and transferred to Dallas from HDR's Pearl River, NY office in January.

Sarah is an EIT who graduated from Texas A&M in December 2007 with a Masters of Engineering.

CDM Announces New Employee

CDM is pleased to announce that W. Don Vandertulip, P.E., has joined the firm as a principal environmental engineer. Based in the firm's San Antonio, Texas office, he will be responsible for the development and support of reclaimed water projects in Texas and throughout the United States.

WEAT-NTS Scholarship

We are currently accepting applications for the WEAT-NTS Scholarship.

See the website:

<http://www.weat-nts.org> for information and click here for [application](#).

Also, please contact [David Jackson](#) if you have questions.

Announcements (Continued)

Don't Forget....

Please come out to support the North Texas Operations Challenge Teams (TRA CReWSers, Dallas Aquatecs, and Ft. Worth Regulators) during the upcoming Texas Water 2008 Conference in San Antonio. The teams will compete on Thursday, March 27th.

Hartwell Environmental Announces New Employee

Hartwell Environmental Corporation is pleased to announce the appointment of Jamie French as a Sales Engineer. Based in the company's Arlington office, Jamie will be covering the municipal and industrial markets in west Texas including El Paso as well as select accounts in the Dallas/Fort Worth area.

Arlington Water Utilities was named as the 2008 Outstanding Utility Award Recipient by the Texas Municipal Utilities Association.

Congratulations to
Arlington Water Utilities!

New Carollo Office in Fort Worth

Carollo announces the recent opening of its new Fort Worth office, located at:

777 Main Street, Suite 600
Fort Worth, Texas 76102
Tele: 817-887-8470
Fax: 817-887-8474

Jim Gallovich is the Fort Worth office manager. Jim has been with Carollo for over eleven years and has sixteen years of experience in water/wastewater.

Carollo also announces the addition of Manish Bhandari, Kwasi Duose, and Jerry Lazo to its team of water and wastewater professionals in the Dallas office and the addition of Mark Jalbert in the Fort Worth office.



The WEAT North Texas Section Nominations Committee is accepting nominations for the following offices: Vice President, Treasurer and Section Representative.

If you are interested in one of these positions, please contact Jody Zabolio at 972-219-1228 or jzabolio@utrw.com.

All nominations must be received by April 1, 2008.

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Past Section Rep	Betty Jordan	(817) 806-1700	(817) 870-3235	bjordan@apaenv.com
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Public Education/Science Fair	Rene Aguilar	(972) 239-9949	(972) 239-9117	raguilar@carollo.com
Scholarship Fund	David Jackson	(214) 217-2257	(214) 920-2565	dri@freese.com
Seminar	Chamindra Dassanayake	(972) 934-3711	(972) 934-3662	cdassanayake@pirnie.com
	Priya Dhanapai	(817) 735-7438		pd@freese.com
Web Page / Newsletter	Holly Ingram	(214) 640-1730	(214) 638-3723	hingram@cpyi.com
Young Professionals	Gilbert Trejo	(817) 877-9978	(817) 885-8676	gtrejo@pirnie.com

WEAT-NTS Calendar of Events

March 20, 2008	City Place, Dallas	WEAT-NTS	Mag. Hydroxide and Effects on Alkalinity and Plant Performance
March 25-28, 2008	Henry B. Gonzalez Convention Center San Antonio, Texas	WEAT-TAWWA	Texas Water 2008
May 2008	Texas Motor Speedway	WEAT-NTS	TBD
July 2008	Annual Picnic	WEAT-NTS	TBD
September 7-10	23rd Annual WaterReuse Symposium	WEAT-NTS	Hilton Anatole, Dallas, Texas
October 18-22, 2008	McCormick Place Chicago, Illinois	WEF/WEAT	WEFTEC. ⁰⁸
November 2008	TBD	WEAT-NTS	TBD

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