



# “Membrane Operations & Troubleshooting”

City of Grand Forks  
Public Works

724 N 47th St.  
Grand Forks, ND 58203

## Special Thanks

### Major Sponsors



## Host Facility Sponsor

City of Grand Forks  
Public Works



Registration Now Open  
[www.amtaorg.com](http://www.amtaorg.com)  
772-463-0820

## Technology Transfer Workshop

May 2, 2019

(Space limited to 50 attendees)

0.6 Contact Hours/PDHs - ND, SD, MN (*Pending Approval*)

- 7:30 - 8:00** Registration & Continental Breakfast
- 8:00 - 8:15** Introduction to Membrane Treatment  
Harold Fravel, Ph.D.,  
American Membrane Technology Association (AMTA)
- Moderator: Roger Macy, H2O Innovation
- 8:15 - 9:00** Membrane Processes  
Harold Fravel, Ph.D., AMTA
- 9:00 - 9:30** Reverse Osmosis and Membrane Softening  
Kyle Jennings, P.E., Harn R/O Systems, Inc.
- 9:30 - 10:00** Use of High Rate Lime Softening Followed by UF Membranes  
Brian Hoellein, P.E., Bartlett & West
- 10:00 - 10:30** Refreshment Break
- 10:30 - 11:00** Update on Fargo Membrane Water Treatment Plant  
Qigang Chang, Ph.D., P.E., Advanced Engineering & Environmental Services, Inc. (AE2S)  
Troy Hall, City of Fargo Water Treatment Plant
- 11:00 - 11:30** Placement and Optimization of Pumps and Energy Recovery Devices in Membrane Systems  
Michael Gisclair, Fluid Equipment Development Company (FEDCO)
- 11:30 - 12:00** Experiences at Grand Forks and Regional Facilities on Operations and Troubleshooting  
Adam Zach, P.E., Advanced Engineering & Environmental Services, Inc. (AE2S)  
Jordan Grasser, P.E., Advanced Engineering & Environmental Services, Inc. (AE2S)
- 12:00 - 12:45** Lunch
- Moderator: Michael Gisclair, Fluid Equipment Development Company (FEDCO)
- 12:45 - 12:55** Drive to Plant
- 12:55 - 2:05** Plant Tour
- 2:05 - 2:15** Refreshment Break
- 2:15 - 2:45** Troubleshooting Membrane Systems  
Roger Macy, H2O Innovation
- 2:45 - 3:15** Surface Water MF/NF Learnings  
Jake Fehr, Pembina Valley Water Cooperative Inc.



# City of Grand Forks Public Works

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Grand Forks, ND 58203

**From Grand Forks International Airport:** Head south. At the traffic circle, take the 1st exit onto Airport Dr. Turn left onto US-2 E/Gateway Dr. Turn right onto N 47th St. Destination will be on the left.

**If lost, contact 701-738-8770**

## REGISTRATION FORM

**American Membrane Technology Association (AMTA)**

**PHONE:** 772-463-0820 ♦ **EMAIL:** events@amtaorg.com ♦ **WEB:** www.amtaorg.com  
2409 SE Dixie Hwy., Stuart, FL 34996

Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Cell: \_\_\_\_\_  
 E-mail: \_\_\_\_\_ Website: \_\_\_\_\_  
 License Type: \_\_\_\_\_ Level (i.e., A, B, or C): \_\_\_\_\_ Lic.#: \_\_\_\_\_

Please refer to [AMTA's Privacy Policy](#) if you have any questions regarding your preferences

### AMTA Workshop

**\*Registration and Payment must be received by event date: (No Exceptions)**

	<u>Amount</u>		
	Apr. 18	On/After: Apr. 19	
AMTA Members:	\$150	\$250	_____
Non-Members:	\$250	\$350	_____
Speakers/Moderators - Members	\$75	\$125	_____
Speakers/Moderators - Non-Members	\$125	\$175	_____

**\*Limited space - available to the first 50 paid registrants**

Total Registration Fee \$ \_\_\_\_\_

**Special Needs:**

- Food Allergies (provide specifics)
- Gluten Free
- Halal Meals
- Vegan Meals
- Vegetarian Meals
- Wheelchair Access
- Other: \_\_\_\_\_

**METHOD OF PAYMENT: Payable to: American Membrane Technology Association**  
**Mail to: 2409 SE Dixie Hwy. , Stuart, FL 34996**

**For Security Purposes, AMTA encourages you to use the Easy Online Registration. Secure Credit Card and eCheck Payment Processing is Now Available at: [www.amtaorg.com](http://www.amtaorg.com)**

### Cancellations/Refunds...

Written cancellation requests received by AMTA on or before **April 18, 2019** will receive a refund, less a \$50 processing fee. Full payment is required if cancellation is received on or after **April 19, 2019** no refunds and no credits for future events will be granted. However, substitutions may be made at any time. AMTA reserves the right to make changes in programs and speakers, or to cancel programs when conditions beyond its control prevail. Every effort will be made to contact each enrollee if a program is cancelled. If a program is not held, AMTA's liability is limited to the refund of the program fee only.