

America's Authority in Membrane Treatment



# October 25-27, 2016 Technology Transfer Workshop “Membrane Processes Present & Future in Ohio”



Credit Hours/PDHs: Water/Wastewater  
(OH - Pending Approval)



**Sheraton Columbus at  
Capitol Square**  
75 E. Capitol St.  
Columbus, OH 43215



*Supporting Affiliation  
& Partnership:*



## Tuesday, October 25, 2016

- 3:00 - 5:00 Exhibitor Set-Up  
3:00 - 5:00 Early Registration  
6:00 - 8:00 Optional Tour -  
MPW Industrial Water  
Trailers & Factory Tour



## Wednesday, October 26, 2016

- 7:30 - 8:15 Registration and Continental Breakfast  
8:15 - 8:30 Introductions & Opening Remarks  
Harold Fravel, Jr., Ph.D., AMTA Executive Director
- 8:30- 12:00 SESSION 1: Membrane Processes**  
Moderator: Scott Freeman, P.E., AMTA President
- 8:30- 9:00 **MF/UF/NF/RO Membrane Plants in Ohio**  
Robert Shoaf, P.E., URS
- 9:00 - 9:30 **Advancement of NF Softening in Ohio and  
Critical Considerations**  
Peter Kube, P.E., ARCADIS
- 9:30 - 10:00 **How Do I Select the Right Polymeric MF/UF  
For Your Application**  
Dan Hugaboom, P.E., Carollo Engineers, Inc.
- 10:00 - 10:30 **Refreshment Break**
- 10:30 - 11:00 **MBR Present and Future**  
Russ Swerdfeger, Evoqua Water Technologies LLC
- 11:00 - 11:30 **Case Study - Canton, OH 42 MGD - MBR Progress**  
Damone Supica, Ovivo USA, LLC
- 11:30 - 12:00 **Case Study: Lancaster Ohio 8-MGD NF Water  
Treatment Plant**  
Julia Nemeth-Harn, P.E., Harn R/O Systems, Inc.
- 12:00 - 1:00 **Lunch (included)**
- 1:00 - 5:20 SESSION 2: Facility Tours**  
Moderator: Bob Oreskovich, H2O Innovation
- 1:00 - 1:30 **Case Study: 2.0 MGD MBR Wastewater Treatment**  
Michael Nixon, City of Lancaster, OH
- 1:30 - 2:20 **On Bus In Route to Plant Tours**
- 2:20 - 4:40 **City of Lancaster - UF/MF & MBR Facility Tours**
- 4:40 - 5:20 **On Bus In Route to Hotel**
- 5:30 - 7:00 **Networking Reception**

## Thank You Platinum Sponsors:



*Creative Chemistry. Smart Solutions.*



**evoqua**  
WATER TECHNOLOGIES

## Thursday, October 27, 2016

**8:00 - 8:30 Continental Breakfast**

**8:30 - 12:00 SESSION 3: Regulations & Technologies for the Future**

Moderator: Troy Walker, Hazen and Sawyer

**8:30 - 9:00 MF/UF Capabilities, EPA & State Regulations**

Ben Movahed, P.E., BCEE, WATEK Engineering Corp.

**9:00 - 9:30 Proactive Corrosion Control Strategies to Avoid the Flint Tragedy**

John Potts, P.E., Kimley-Horn & Associates, Inc.  
Rebecca Wilder, E.I., Town of Jupiter

**9:30 - 10:00 Contaminants of Emerging Concerns**

Rebecca Wilder, E.I., City of Jupiter

**10:00 - 10:30 Refreshment Break**

**10:30 - 11:00 Closed Circuit RO - Succeeding Where Traditional RO Fails**

Rick Stover, Ph.D., Desalitech

**11:00 - 11:30 Advances in Membrane Fouling Prediction and Autopsies**

Ken Robinson, Avista Technologies, Inc.

**11:30 - 12:00 Ceramic MF/UF Technologies for the Future**

Scott Freeman, P.E., Black & Veatch Corporation

**12:00 - 1:00 Lunch (included)**

**1:00 - 2:45 SESSION 4: Case Studies and Applications**

Moderator: Christine Owen, Tampa Bay Water

**1:00 - 1:30 Case Study: City of Delaware Ohio 3.6-MGD UF & NF**

Denis Guilbert, H2O Innovation

**1:30 - 2:00 Case Study: Tipp City, OH 1-MGD NF Concentrate Management**

Nichole Sajdak, P.E., Hazen and Sawyer

**2:00 - 2:30 Case Study: Personnel Issues Converting to a Membrane Plant**

Jill Miller, City of Bozeman Water Treatment Plant

**2:30 - 2:45 Workshop Wrap-Up**

Wayne Bates, Workshop Co-Chair

Ken Robinson, Workshop Co-Chair

**3:00 - 9:00 AMTA Board Meeting**

### Thank You Sponsors:

#### **Gold:**

**MPW Industrial Services, Inc.**

**PWT**

#### **Silver:**

**Hydranautics Nitto Group Company**

**Toray Membrane USA, Inc.**

**WesTech Engineering, Inc.**

#### **Bronze:**

**FEDCO**

**Polymem**

**Process Solutions**

## WHAT YOU WILL LEARN

This AMTA Technology Transfer Workshop will focus on treating conventional water and waste waters using a range of membrane technologies. Attendees will learn about the present and future use of polymeric and ceramic based membranes to meet the needs of municipalities and industry. There will be plant tours of the City of Lancaster UF/MF clean water plant and MBR municipal waste water plant. The workshop will offer a review of membrane plants in Ohio and five Ohio-based membrane plant case studies. It will also cover a variety of topics ranging from how to pick a MF/UF, a review of EPA and state regulations, strategies to avoid another Flint, compounds of emerging concerns, a new RO process for difficult waters, and how to keep your RO running. The workshop will have table top exhibits by suppliers for these applications and several networking opportunities.

## TABLE TOP EXHIBITS (Table Top Backdrops Only)

Each Table Top Booth will cost \$750 for Members  
*(must be a Division 1 or 2 member to exhibit)*

## ALL EXHIBIT SPACES WILL BE SELECTED ON-SITE ON A FIRST COME/FIRST SERVED BASIS

### All Table Top Exhibitors will receive:

- One 6' Table (Chairs are available upon request)
- One full attendee registration to the Workshop
- List of attendees sent via e-mail two weeks prior and a final list once available
- Acknowledgement in the attendee materials
  - 100 word company description
  - please e-mail: [planning@amtaorg.com](mailto:planning@amtaorg.com)
- Sign recognition during the program
- Electricity is available from the Hotel for an additional fee



## SPONSORSHIP OPPORTUNITIES

Our objective is to provide education for our members and others based on current and evolving water treatment issues and technologies. Sponsorship of this AMTA program makes it possible for the industry to deliver its experienced perspective on the nation's water supply in a concerted manner. Please consider sponsoring this workshop.

### All Sponsors will receive:

- One full attendee registration to the Workshop
- List of attendees sent via e-mail two weeks prior & a final list once available
- Acknowledgement in the attendee materials - 100 word company description
  - please e-mail: [planning@amtaorg.com](mailto:planning@amtaorg.com)
- Company promotional item giveaway
  - Please submit your giveaway item to be given to attendees during sign-in
- Sign recognition during the program



## Sheraton Columbus

75 E. State Street, Columbus, OH 43215

A group rate of **\$133 for guest rooms (Single/Double)** has been negotiated for this program for reservations made by **Monday, October 3, 2016** (subject to availability). Make hotel arrangements directly with the Sheraton: **800-325-3535** and refer: **AMTA** for discounted rate. Valet Parking - \$23, Overnight Self-Parking - \$14 and Day Parking - \$5. All rooms feature complimentary Wi-Fi.



### From Port Columbus International Airport (CMH):

Start out going SE on International Gateway. Take International Gateway toward Departures - Ticketing & Check-In. Keep right at the fork to continue on International Gateway. Take the I-670 E/US-62 E ramp toward I-670 W/US-62 W/



Columbus/Downtown/Cassady Ave/I-270. Keep left to take the ramp toward I-670W/US-62 W/Columbus/Downtown/Cassady Ave. Merge onto I-670 W Via the ramp on the left toward Columbus. Take the US-23 S/Third St. exit, exit 4B, on the left toward High St. Merge onto N 3rd St/US-23 S toward Nationwide Arena. Turn right onto E. State St. Hotel will be on your left.

## Transportation

**Avis Rent-A-Car** discounted rates are available. To participate, call Avis at **800-331-1600**. Reference **Account No. AWD# Z441010**.

## Each Participant Receives

Conference materials, facility tour, networking reception, refreshment breaks, lunch each day, and certificate of attendance. Tuition does not include lodging or other meals. All registration fees must be paid prior to the program. On-site registration will be accepted with payment.

## Cancellations and Refunds

Written cancellation requests received by AMTA on or before October 3, 2016 will receive a refund, less a \$50 processing fee. Full payment is required if cancellation is received on or after October 4, 2016 - 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.

## REGISTER EARLY AND SAVE

### How to Register:

**PHONE: 772-463-0820**

**FAX: 772-463-0860**

**EMAIL: [regassist@amtaorg.com](mailto:regassist@amtaorg.com)**

**WEB: [www.amtaorg.com](http://www.amtaorg.com)**

## Optional MPW Industrial Services Tour

MPW Industrial Services is offering a special complimentary tour of their new IT and Technology Center and water purification equipment in nearby Hebron, OH on Tuesday, October 25<sup>th</sup> from 6pm-8pm.

Please contact Bill Landis via email at [wlandis@mpwservices.com](mailto:wlandis@mpwservices.com) or by phone 740-928-0213 to arrange transportation and tour.

# OCTOBER '16 - REG. FORM

American Membrane Technology Association (AMTA)

PH: 772-463-0820 ♦ FAX: 772-463-0860 ♦ E: [regassist@amtaorg.com](mailto:regassist@amtaorg.com)  
 2409 SE Dixie Hwy. ♦ Stuart, FL 34996 ♦ [www.amtaorg.com](http://www.amtaorg.com)

Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Ph: \_\_\_\_\_ Cell: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail: \_\_\_\_\_ Website: \_\_\_\_\_

I would like to receive email messages from AMTA about Events or Activities:  YES  NO  
 Member (check all that apply):  AMTA  IDA

**2-Day Workshop:** (Registration includes CEUs/PDHs)

Registration & Payment must be received by:	Oct. 3rd	On/After Oct. 4th	Amount
Members/Affiliates (must be from the list above)	\$300	\$400	_____
Member Div. 1 or 3C (-Affiliates equivalent)	\$75	\$175	_____
Non-Member - Operator	\$200	\$300	_____
Non-Member - All Other	\$400	\$500	_____
Regulators/Full-Time Student	\$75	\$100	_____
Speakers/Moderators - Members/Affiliates	\$200	\$300	_____
Speakers/Moderators - Non-Members/Affiliates	\$300	\$400	_____
<b>Guest/Spouse Wed. Networking Reception:</b>	\$10	\$10	_____
<b>Cannot Attend - Purchase Materials:</b>	\$30	\$30	_____

License Type: \_\_\_\_\_ License Class (i.e., 1, 2, 3, or 4): \_\_\_\_\_  
 State: \_\_\_\_\_ License #: \_\_\_\_\_

**Exhibit-Table Top:**  \$750 (must be a div. 1 or 2 member to exhibit)

Spaces are selected onsite - first come, first served

**Sponsor:**  Platinum: \$1,250  Fun Event: \$1-6,000  Gold: \$1,000  Silver: \$750  Bronze: \$600

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

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

**Special Needs:**  
 Wheelchair Access  
 Vegetarian Meals  
 Vegan Meals  
 Other \_\_\_\_\_

I will attend the following functions, which are included in the registration fee:  
 Facility Tours Wed., Oct. 26 - 1:00-5:20 p.m.  Yes  No  
 Networking Reception Wed., Oct. 26 - 5:30-8:00 p.m.  Yes  No  
 Will you be staying at the Sheraton Hotel?  YES  NO How many nights: \_\_\_\_\_

Non-Profit Org.  
 U.S. Postage  
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 West Palm Beach FL  
 Permit #2085

