

America's Authority in Membrane Treatment



Improving America's Waters Through Membrane Treatment and Desalting



July 12-14, 2016 Technology Transfer Workshop

“Membranes Impact the
Pacific Northwest:
Water, Wastewater and
Reuse Technologies
and Applications”

Credit Hours/PDHs: Water/Wastewater
WA, OR, ID, MT, UT- Approved

Supporting Affiliation:



Hilton Vancouver Washington
301 W 6th Street
Vancouver, WA 98660

PROGRAM SCHEDULE

WHAT YOU WILL LEARN

This AMTA/NWMOA/WEF Technology Transfer Workshop will focus on applying membranes to drinking water, wastewater, and reuse applications. There will be tours of two full-scale facilities that use membranes – the North Clackamas Water Treatment Plant and the La Center Wastewater Treatment Plant. The workshop will also cover topics such as Membranes in Reuse Applications, MBR Case Studies, MF/UF uses in Drinking Water, New Technology and Trends, and an Operator Roundtable.

Tuesday, July 12, 2016

- 3:00 - 5:00 Exhibitor Set-Up
- 3:00 - 5:00 Early Registration
- 5:30 - 6:30 NWMOA Board Meeting

Wednesday, July 13, 2016

- 7:30 - 8:15 Registration and Continental Breakfast
- 7:30 - 8:15 **Membrane Basics** *(for those new to Membranes or wanting a refresher)*
Harold Fravel, Ph.D., AMTA Executive Director
- 8:15 - 8:30 **Introductions and Opening Remarks**
Harold Fravel, Ph.D., AMTA Executive Director
Jill Miller, NWMOA President
Linda Kelly, WEF Rep.
- 8:30 - 12:00 **SESSION 1: Commonalities, Reuse**
Moderator: Jill Miller, NWMOA President
- 8:30 - 9:00 **GWRS-The World's Largest Indirect Potable Reuse Facility**
Mehul Patel, P.E., Orange County Water District
- 9:00 - 9:30 **Dealing with the Past, Managing the Present and Planning for the Future**
Eric Owens, P.E., West Basin Municipal Water District
- 9:30 - 10:00 **Checking in on the Chino Concentrate Reduction Facility**
Eric Cherasia, P.E., Carollo Engineers
- 10:00 - 10:30 **Refreshment Break**
- 10:30 - 11:00 **Tractor Paint Factory Wastewater Recycle Stream with Kubota MBR**
Hiro Kuge, Kubota
- 11:00 - 11:30 **Integrating Membrane Filtration with Existing Slow Sand Filters**
Alan Schacht, North Clackamas County Water Commission
- 11:30 - 12:00 **La Center Wastewater Plant Overview**
Sue Lawrence, City of La Center
- 12:00 - 1:00 **Lunch** (included)
- 1:00 - 4:30 **SESSION 2: Plant Tours**
Moderator: Bob Oreskovich, H2O Innovation
- 1:00 - 1:30 **On Bus In Route North Clackamas Water Plant**
- 1:30 - 2:30 **Facility Tour - North Clackamas Water Plant**
- 2:30 - 3:15 **On Bus In Route La Center Wastewater Plant**
- 3:15 - 4:15 **Facility Tour - La Center Wastewater Plant**
- 4:15 - 4:30 **On Bus In Route to Hotel**
- 5:00 - 7:00 **Networking Reception**



PROGRAM SCHEDULE

Thursday, July 14, 2016

- 8:00 - 8:30** **Continental Breakfast**
- 8:30 - 10:00** **SESSION 3A: MBR: Case Studies, Open Platform**
Moderator: Terry Gellner, P.E., TnT Engineering LLC
- 8:30 - 9:00** **Operating an MBR Plant Parallel to an Activated Sludge Plant**
Blake Raines, Water Environment Services
- 9:00 - 9:30** **Hermiston Oregon: MBR Start-Up Through the 1st Year of Operation**
Anthony Zamarro, Evoqua Water Technologies
- 9:30 - 10:00** **Startup/Testing and Operational Challenges of JBLM's Low Pressure Membrane System**
Judy Nishimoto, CDM Smith
- 10:00 - 10:30** **Refreshment Break**
- 10:30 - 11:00** **MBR and the 3 R's**
Dennis Livingston, Ovivo USA, LLC
- 11:00- 11:30** **The Use of Flat Plate PVDF MBR Modules to Sludge Thickening**
Michael Stefanic, Toray Membrane USA, Inc.
- 11:30 - 12:00** **Improving Organic Reduction and Overcoming Challenges at an MBR Plant Treating Wastewater From a Plastics Production Process**
David Holland, Aqua-Aerobics Systems
- 8:30 - 10:00** **SESSION 3B: MF/UF: Case Studies, Open Platform**
Moderator: Russ Swerdfeger, Evoqua Water Technologies LLC
- 8:30 - 9:00** **Failure Testing as a Startup Tool**
John Koch, P.E., BCEE, HDR Engineering, Inc.
- 9:00 - 9:30** **Membrane Operations Monitoring with a Universal HMI**
Jay MacPherson, Ph.D., P.E., Oregon Health Authority, Drinking Water Services
- 9:30 - 10:00** **On-Demand Gravity Powered Ceramic Filtration Facility: A New Philosophy in Montana**
Nathan Kutil, P.E., HDR Engineering, Inc.
- 10:00 - 10:30** **Refreshment Break**
- 10:30 - 11:00** **Phasing & Pretreatment Considerations for Clifton Water District's Media Filter to Membrane Filter Conversion**
Dan Hugaboom, P.E., Carollo Engineers, Inc.
- 11:00- 11:30** **Hybrid Membrane Process: Shaping the Future of Drinking Water Treatment**
Benoit Barbeau, Ecole Polytechnique De Montreal
- 11:30 - 12:00** **Keeping Membrane at It's Optimum Operating Conditions**
YuJung Chang, AECOM Water
- 12:00 - 1:00** **Lunch (included)**
Scott Freeman, P.E., Black & Veatch, AMTA President
- 1:00 - 3:30** **SESSION 4: New Technologies/Trends & Roundtable**
Moderator: Nathan Kutil, P.E., HDR Engineering, Inc.
- 1:00 - 1:30** **MBR Technologies & Trends**
Dennis Livingston, Ovivo USA, LLC
Hiro Kuge, Kubota
Jason Diamond, GE Water & Process Technologies
- 1:30 - 2:00** **UF/MF Technologies & Trends**
Peter O'Connell, Pall Corporation
Russ Swerdfeger, Evoqua
Joe Tardio, Scinor

PROGRAM INFORMATION

Thursday, July 14, 2016

1:00 - 3:30 **SESSION 4: (Continued)**

Moderator: Nathan Kutil, P.E., HDR Engineering, Inc.

2:00 - 2:15 **Refreshment Break**

2:15 - 3:15 **Membrane Operations - Operator Roundtable Discussion**
Chad Busch, Park City Municipal Corporation; Sue Lawrence, City of La Center; Ray Pardee, City of Cottage Grove; and Howard Burton, City of St. Helens

3:15 - 3:30 **Workshop Wrap-Up**
Jill Miller, Workshop Co-Chair

3:30 - 9:30 **AMTA Board Meeting**

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
- 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/NWMOA/WEF 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 and a final list once available
- Acknowledgement in the attendee materials - 100 word company description
 - please e-mail: 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

Platinum Sponsors:



Gold:

Carollo Engineers, Inc.
PWT

Silver:

Aqua-Aerobics Systems, Inc.
Hydranautics Nitto Group Company
Toray Membrane USA, Inc.
WesTech Engineering, Inc.

Bronze:

Fluid Equipment Development Company (FEDCO)
Polymem

REGISTRATION INFORMATION

Hilton Vancouver Washington

301 W. 6th Street, Vancouver, WA 98660

A group rate of **\$145 for guest rooms (single/double)** has been negotiated for this program for reservations made by **Moday, June 20, 2016** (subject to availability). Make hotel arrangements directly with the Hilton: **800-445-8667** and refer to **AMTA** for discounted rate. Self-Parking -\$10.00 Valet Parking - \$22.00. All rooms feature complimentary Wi-Fi and 37" flat-panel televisions.



From Portland International Airport (PDX):

Take I-205 North over Glen Jackson Bridge into Washington, the first exit onto Hwy. 14 W., towards Vancouver, stay on Hwy. 14 approx. 7 mi., follow signs into City Ctr, go left, follow signs to 6th St., hotel corner of 6th and Columbia.

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/NWMOA/WEF on or before June 20, 2016 will receive a refund, less a \$50 processing fee. Full payment is required if cancellation is received on or after June 21, 2016 - no refunds and no credits for future events will be granted. However, substitutions may be made at any time. AMTA/NWMOA/WEF 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/NWMOA/WEF'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

WEB: www.amtaorg.com



JULY '16 - REG. FORM

American Membrane Technology Association (AMTA)

PH: 772-463-0820 ♦ FAX: 772-463-0860 ♦ E: regassist@amtaorg.com
 2409 SE Dixie Hwy. ♦ Stuart, FL 34996 ♦ 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 or SCMA about Events or Activities: YES NO
 Member (check all that apply): AMTA IIDA SEDA SCMA SWMOA NWMOA WEF

2-Day Workshop: (See Program Information Page)

Registration & Payment must be received by:	June 20th	On/After June 21st	Amount
Members/Affiliates (must be from the list above)	\$300	\$400	_____
Member Div. 1 or 3C. (Affiliates equivalent)	\$175	\$275	_____
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	_____
Guest/Spouse Wed. Networking Reception:	\$10	\$10	_____
Cannot Attend - Purchase Materials:	\$30	\$30	_____
Need Credit Hours Certification:	\$25	\$25	_____

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

- Special Needs:**
- Wheelchair Access
 - Visually Impaired
 - Hearing Impaired
 - Vegetarian Meals
 - Other _____

I will attend the following functions, which are included in the registration fee:

- Facility Tour Yes No Wed., July 13 - 1:00-4:30 p.m.
 Networking Reception Yes No Wed., July 13 - 5:00-7:00 p.m.

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

