



PROGRAM DETAILS – ONLINE TRAINING/WEBINAR

Please complete all items and submit to Shannon Melvin (support@nwmoa.com).

Part A: Submitter Information

Name: Shannon Melvin Suffix: P.E. Job Title: Customer Service Support
(i.e.: Ph.D., P.E., Jr.)

Company: Northwest Membrane Operator Association | NWMOA

Mailing Address: 12592 West Explorer Dr., Ste. 200

City: Boise State/Province: ID Postal Code: 83713 Country: USA

Telephone: 208-577-6519 Cell Ph: n/a

Email: support@nwmoa.com Website: www.nwmoa.com

Sponsoring Volunteer Group (if applicable): Northwest Membrane Operator Association | NWMOA

Proposed Webinar Date: August 26, September 2 & September 9, 2020

Part B: Webinar Content

Webinar Title: Membrane Applications & Training: Industrial, Wastewater & Drinking Water

Program Description:

Long Description – Provide one paragraph describing this webinar to prospective attendees. Define the main goal, describe the most important components of the presentations, and explain any significant features or highlights.

This 3 part webinar series will provide something for everyone. Our first part will focus on a couple of industrial membrane treatment applications as well as quality control considerations and participants will learn about some complex challenges and be presented with the full scale solutions employed. Our second part will highlight some ceramic membrane processes employed as well as theoretical living membranes system currently being explored by academia. The third part will have a wastewater (MBR) focus and will present introductory as well as advanced level concepts coupled with case study examples.

Short Description – Describe the webinar and why prospective attendees should attend. *Please note that the information provided will be used for promotional emails if your proposal is accepted and there is a strict 40-word limit.*

This 3 part webinar series will provide something for everyone. We will focus on industrial membrane treatment applications as well some ceramic drinking water membrane and theoretical living membranes system currently being explored by academia. Finally, MBR concepts coupled with case studies will round out the agenda.

Why is this webinar important and what is in it for the learner (give examples of any skills, tools, or solutions the webinar will provide)?

This webinar is important because it provides such a broad spectrum of topics that it will have interesting aspects for all attendees. The learner will be exposed to reverse osmosis operational concepts as well as manufacturing considerations. They will get incite into not only residuasl waste considerations, but also novel organic membrane systems that consume the waste. Wastewater MBR discussion will start at 101 level and continue through advanced concepts that are the latest thinking from our industry.

What is the main point or utility challenge that this webinar will help to solve and what action should the viewer/utility take as a result of the webinar?

The main point is that no matter what water you have or what challenge you are trying to solve, there is likely a membrane related solution out there to suit your needs.

Northwest Membrane Operator Association (NWMOA) • 12592 West Explorer Dr., Ste. 200. • Boise, ID 83713
208-577-6519 • support@nwmoa.com • www.nwmoa.com

Part B: Webinar Content *(continued)*

List three to five learning objectives. What takeaways will the audience gain from this webinar? Use action verbs to describe the new knowledge or skills that will be transferred to the learner. Knowing and understanding the information presented is important, but these are only the most basic types of objectives. In addition to *knowledge* and *understanding*, use objectives that ask the attendees to *apply*, *analyze*, *create*, and *evaluate* the content as well.

As a result of this webinar, the attendees will be able to:

1. **Ceramic membranes have the ability to perform extremely well in the right application.**
 2. **Backwash recovery is not that hard and an extremely useful tool for dealing with waste.**
 3. **Quality control for membrane production is something that everyone should care about.**
 4. **The future is bright for membrane systems and current research is showing promise.**
 5. **Membranes may offer the solution to some of the toughest to treat mine waste streams.**
-

Part C: Speaker Information

We request each webinar series offer a variety of perspectives on the issue. A diverse speaker lineup will help ensure your content is delivered in a way that is meaningful and memorable to the audience. *Please note that each part of a webinar series are typically 1.5-hours in length. You may elect to have (2) 30-minute, (3) 20-minute, or (4) 15-minute presentations, with a 5-10 minute opening introduction and 20 minutes for Q&A at the end.*

Please provide each speaker with the ONLINE TRAINING/WEBINAR SPEAKER INFO, BIO & TOPIC ABSTRACT form for completion. Speaker Forms can be submitted individually or with this form by the appointed deadline.

Please select the number of Presentations per each part of your webinar series:

☐ 2 ☒ 3 ☐ 4

Part D: Audience Information

Recommended level of prerequisite audience knowledge:

☐ Basic ☐ Intermediate ☐ Advanced ☒ N/A

List target audiences most appropriate for this webinar:

| | |
|--|--|
| <p><i>Topics Covered: (Check all that apply)</i></p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Advanced Water Treatment/Reuse<input type="checkbox"/> Automation and Control<input type="checkbox"/> Climate Change<input type="checkbox"/> Conservation/Efficiency<input checked="" type="checkbox"/> Desalination<input checked="" type="checkbox"/> Design/Construction<input checked="" type="checkbox"/> Plant Operations<input checked="" type="checkbox"/> Drought<input type="checkbox"/> Emergency Preparedness/Security<input checked="" type="checkbox"/> Groundwater<input checked="" type="checkbox"/> Innovation<input type="checkbox"/> Laboratory<input checked="" type="checkbox"/> Membrane Treatment<input checked="" type="checkbox"/> Operations<input type="checkbox"/> Public Health<input type="checkbox"/> Public Information/Communications<input checked="" type="checkbox"/> Regulatory Issues<input type="checkbox"/> SCADA/GIS<input checked="" type="checkbox"/> Small Systems<input checked="" type="checkbox"/> Source Water<input checked="" type="checkbox"/> Training/Career Development<input checked="" type="checkbox"/> Utility Management<input checked="" type="checkbox"/> Wastewater<input type="checkbox"/> Water Loss<input checked="" type="checkbox"/> Water Quality/Treatment<input type="checkbox"/> Water Research<input checked="" type="checkbox"/> Water Resources/Planning<input type="checkbox"/> Young Professionals | <p><i>Audience: (Check all that apply)</i></p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Executive<input checked="" type="checkbox"/> Management, Non-Engineering<input checked="" type="checkbox"/> Design & Engineering<input checked="" type="checkbox"/> Scientific, Non-management<input checked="" type="checkbox"/> Plant Operators <p><i>Industry (Check all that apply)</i></p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Public Water Supply Utility, Municipal<input checked="" type="checkbox"/> Public Water Supply Utility, Investor Owned<input checked="" type="checkbox"/> Government, Federal, State, Local<input checked="" type="checkbox"/> Consulting Firm<input checked="" type="checkbox"/> Contractor<input checked="" type="checkbox"/> Private Industrial System or Water Wholesaler<input checked="" type="checkbox"/> Manufacturer, Equipment & Supplies<input checked="" type="checkbox"/> Distributor, Equipment & Supplies<input checked="" type="checkbox"/> Educational Institution<input checked="" type="checkbox"/> Research Lab<input checked="" type="checkbox"/> Other allied to the field |
|--|--|