



NWMOA

Northwest Membrane Operator Association

20 Contact Hours/PDHs (Pending Approval)

NWMOA - MOC-IV: Membrane Operators Certification Membrane Bio-Reactor (MBR) Systems

February 13-15, 2018

(Space limited to 100 attendees)

**Brightwater Environmental Education
& Community Center**

22505 State Route 9 SE
Woodinville, WA 98072

Day 1 - Tuesday - February 13th

- Moderator: Bart Stepp, P.E., Mason County Public Works
- 7:30 - 8:00 **Registration/Check-In**
- 8:00 - 10:00 **Chapter 1 - Wastewater Collection & Reclamation Basics**
Sue Lawrence, SL Environmental Consulting, LLC
- 10:00 - 10:15 **Break**
- 10:15 - 11:45 **Chapter 2 - Biological Treatment Basics**
Sue Lawrence, SL Environmental Consulting, LLC
- 11:45 - 12:30 **Lunch**
- 12:30 - 1:30 **Chapter 3 - Pretreatment**
Jens Neilsen, Treatment Equipment Company
- 1:30 - 1:45 **Break**
- 1:45 - 3:45 **Chapter 4 - MBR Operations**
Dave Commons, HACH Company
- 3:45 - 5:15 **Facility Tour: Brightwater Treatment Plant**
Jeffrey Lundt, P.E., King County Wastewater Treatment Division

Day 2 - Wednesday - February 14th

- Moderator: Sue Lawrence, SL Environmental Consulting, LLC
- 8:00 - 10:00 **Chapter 5 - Blowers**
Jens Neilsen, Treatment Equipment Company
- 10:00 - 10:15 **Break**
- 10:15 - 12:15 **Chapter 6 - Data Collection & Normalization**
Dennis Livingston, Ovivo USA, LLC
- 12:15 - 1:00 **Lunch**
- 1:00 - 2:30 **Chapter 7 - Troubleshooting**
Dave Commons, HACH Company
- 2:30 - 2:45 **Break**
- 2:45 - 4:45 **Chapter 8 - Membrane Fouling & Cleaning**
Dennis Livingston, Ovivo USA, LLC

Day 3 - Thursday - February 15th

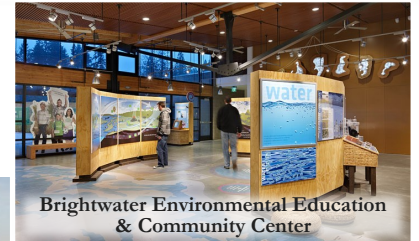
- Moderator: Bart Stepp, P.E., Mason County Public Works
- 8:00 - 10:00 **Chapter 9 - Disinfection: Water Reuse Discharge**
Christopher Stoll, Kennedy/Jenks Consultants
- 10:00 - 10:15 **Break**
- 10:15 - 12:15 **Chapter 10 - Solids Handling - Residuals Management**
David Seymour, P.E., Kennedy/Jenks Consultants
- 12:15 - 1:00 **Lunch**
- 1:00 - 3:00 **Course Review, Summary and Evaluations**
Sue Lawrence, SL Environmental Consulting, LLC
- 3:00 - 4:00 **Exam**
- 4:00 - 5:00 **Exam Review**
Sue Lawrence, SL Environmental Consulting, LLC

Thanks to Host Facility:

King County
Brightwater Environmental Education
& Community Center



King County



Brightwater Environmental Education
& Community Center



Brightwater Treatment Plant

If lost, contact 206-510-2753

SPONSORSHIP OPPORTUNITIES

Major Sponsor...available at \$1,000

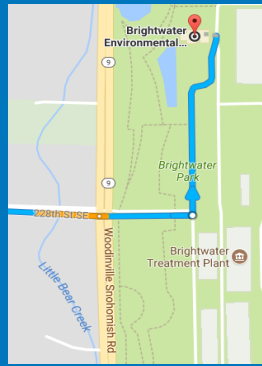
Includes recognition as a Major Sponsor, logo on the brochure, and company profile and logo on PowerPoint Laptop background (played in classroom during breakfast, lunch and refreshment breaks). Does not include an attendee registration.

Lunch Sponsor...available at \$500 (per day)

Includes recognition as a Lunch Sponsor, company name on the brochure, and company name and logo on PowerPoint Laptop background (played in classroom during breakfast, lunch and refreshment breaks). Does not include an attendee registration.

Break Sponsor...available at \$350 (per break)

Includes recognition as a Break Sponsor, Company Name on the brochure, and company name on PowerPoint Laptop background (played in classroom during breakfast, lunch and refreshment breaks). Does not include an attendee registration.



WA - Feb. 13-15 MOC-IV: Membrane Bio-Reactor (MBR) Systems

Brightwater Environmental Education & Community Center

22505 State Route 9 SE
Woodinville, WA 98072

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Hotels in the area:

- Comfort Inn & Suites Bothell - Seattle North (3.6 miles)
1414 228th St SE, Bothell, WA 98021
(425) 402-0900
- Holiday Inn Express Bothell (3.7 miles)
22922 15th Ave SE, Bothell, WA 98021
(425) 483-8100
- Hilton Garden Inn Seattle/Bothell, WA (4.2 miles)
22600 Bothell Everett Hwy, Bothell, WA 98021
(425) 486-0400

REGISTRATION FORM

Northwest Membrane Operator Association (NWMOA)

PHONE: 208-577-6519 ♦ FAX: 772-463-0860

EMAIL: custsrv@nwmoa.com ♦ WEB: www.nwmoa.com

12592 W. Explorer Dr., Ste. 200, Boise, ID 83713

Name: _____ Title: _____

Company: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Cell: _____ Fax: _____

E-mail: _____ Website: _____

I would like to receive email messages from NWMOA and/or AMTA about Events or Activities: YES NO

License Type: _____ Level (i.e., A, B, or C): _____ Lic.#: _____

Registration and Payment in full must be received to reserve your space: (No Exceptions) Amount

NWMOA Members: (Feb. 13-15) \$350 _____

Exam: (Feb. 15) \$25 _____

(to be certified, exam is required and exam fee is not included with registration fee)

Non-Members - Contact NWMOA Membership if interested in joining prior to registering

The registration fee includes CEUs/PDHs, the shipment of the MOC Manual to the address listed above upon receipt of full payment. If an alternate address for shipment is requested, please provide the preferred shipping address by calling NWMOA at 208-577-6519. For payments received within five (5) business days of the school, the MOC Manual will be provided on the first day of class.

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: Northwest Membrane Operator Association

Mail to: 12592 W. Explorer Dr., Ste. 200, Boise, ID 83713

Check Enclosed for \$ _____ Please Invoice Credit Card - see below

For Security Purposes, NWMOA encourages you to use the Easy Online Registration and Secure Credit Card and eCheck Payment Processing Now Available at:
www.nwmoa.com

Cancellations/Refunds...

Written cancellation requests received on or before **Jan. 26, 2018** will receive a refund, less a \$50 processing fee receipt to NWMOA office of the unaltered MOC Handbook. Without return receipt of the unaltered MOC Handbook the cancellation fee will be \$200 (includes administrative processing fee and handbook fee). Full payment is required if cancellation is received on or after **Jan. 27, 2018** - no refunds and no credits for future events will be granted. However, substitutions may be made at any time. NWMOA 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, NWMOA's liability is limited to the refund of the program fee only.