



# Risks and Rewards of Membrane Plants in the Northwest

Vancouver, WA August 30-31, 2023



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# **TUESDAY. AUGUST 29. 2023**

3:00 - 5:00 pm Exhibitor Set-Up and Registration Open

## WEDNESDAY, AUGUST 30, 2023

8:15 am **Introduction and Opening Remarks** 

John Tonner, American Membrane Technology Association

#### SESSION 1 - INTRODUCTION AND RISK

Moderator: Timothy English, Carollo Engineers

**Time:** 8:30 am - 12:00 pm

8:30 am **External Funding Opportunities: The Ins and Outs of Considerations** 

Seema Chavan, Brown and Caldwell

9:00 am 'When' Does it Make Economic Sense to Slect Ceramic Membranes?

Dave Holland, Aqua-Aerobic Systems, Inc.

**Actions to Increase Critical Infrastructure Availability During** 9:30 am

> Cybersecurity Attacks Peter Barry, HDR, Inc.

**NETWORKING BREAK** 10:00 am

10:30 am Not If, But When: How to be Prepared to Face Supply Chain Risks

Simon Bouchard, H,O Innovation

11:00 am **PVDF Supply Chain Obstacles and Coundermeasures** 

Sean Carter, Toray Membrane USA, Inc.

11:30 am Risks Facing WTP?WWTPs and How to Mitigate Them Panel Discussion

Dave Holland, Aqua Aerobic Systems, Inc.

Peter Barry, HDR, Inc.

Simon Bouchard, H2O Innovation

Sean Carter, Toray Membrane USA, Inc.

### SESSION 2 - FACILITY TOUR

Moderator: Greg Madden, H2O Innovation

Time: 1:00 - 5:00 pm

1:00 pm Facility Overview - North Clackamas County Water Commission Water

Treatment Plant

Joe Rogers, North Clackamas County Water Commission

**Load Bus** 1:30 pm

**Travel to NCCWC WTP** 1:45 pm

**Tour NCCWC WTP** 2:30 pm

3:30 pm Travel to Hotel 4:15 pm Arrive back at Hotel

4:45 pm Travel to Networking Event

5:00 - 7:00 pm Networking Event (Location TBD)

## THURSDAY, AUGUST 31, 2023

**SESSION 3 - MEMBRANE CASE STUDIES** 

Moderator: Tina St. Pierre, Veolia Water Technologies & Solutions

Time: 8:30 am - 12:00 pm

8:30 am Understanding Rejection: The Path to a Healthy Membrane Life

Nick Poplizio, Avista Technologies, Inc.

9:00 am Sustainably Protecting Local Water Supplies by Recharging Aquifers

with MBR Effluent

Hiro Kuge, Kubota Membrane

9:30 am Thoughtful Planning Leads to Successful Pilot Testing for Springfield

Utility Board's McKenzie WTP Lee Odell, Consor Engineering

10:00 am NETWORKING BREAK

10:30 am Extending Membrane Life

Darrell Byrer, American Water Chemicals, Inc.

11:00 am Presentation Title TBD

Dustin Whynman, Carollo Engineers

11:30 am Study of Wastewater Autopsy and Full Element Cleaning of Aluminum

Silicates and Iron Gregory Sato, PWT

# SESSION 4 - MEMBRANE APPLICATIONS AND DISCUSSION

Moderator: Jill Miller, City of Bozeman

**Time:** 1:00 - 2:45 pm

1:00 pm Impact of Harmful Algal Blooms Public Health and MF/UF Drinking

Water Treatment Systems

Evan Hofeld, Oregon Department of Health

1:30 pm PFAS Regulatory Issues in Washington

Mike Means, Washington DOH Office of Drinking Water

2:00 pm So, What's New in Water Treatment Since WWII? Updating Water

Treatment Technology at the Hanford Site

Thomas Helgeson, Hanford Mission Integration Solutions, LLC

2:30 pm Workshop Wrap-Up

Jill Miller, City of Bozeman

Timothy English, Carollo Engineers

3:00 - 6:00 AMTA Board Meeting