

N Networking Event
 P Pre-Seminar Workshop
 R Registration Desk
 S Silent Auction
 D Trade Show

MARCH 10 • MONDAY

8:30am – 12:00pm **P Pre-Seminar Workshop #1 - Water Closet to Water Body: A Guide to Upgrading Aging Wastewater Facilities**
Speakers: Derek Mayowski, Sarah Bruce, Rudy Chan, Daniel du Toit Banff Centre (Kinnear Building) (107 Tunnel Mountain Drive)

Many communities have failing wastewater treatment infrastructure but are struggling with how to use their limited funds as effectively as possible. In this seminar, our team will examine the wastewater treatment process from all angles and for both mechanical wastewater facilities and lagoons. This will include:

- Receiving Water Body Studies. These studies examine what effluent quality limits we need to achieve through our treatment process. This presenter will provide an overview of how these studies are performed and the information they provide.
- Upgrades to Mechanical WWTPs. This presenter will provide insight into upgrades they have made at their mechanical WWTP to meet more stringent limits, including lessons learned.
- Upgrades to Lagoons. This presenter will review options to improve the lagoon's performance and where each one is applicable, considering site constraints. These options include aeration, expansion, and innovative technologies.
- Operational Considerations

8:30am – 12:00pm **P Pre-Seminar Workshop #2 - Reservoir Construction – From Concept to Commissioning**
Speakers: Brian Brost, Ryan Maloney Banff Centre (Kinnear Building) (107 Tunnel Mountain Drive)

This workshop will provide delegates with focus on essential 'need-to-knows' for water utility operators and managers when planning for and undertaking replacement or construction of a new water reservoir and pumping station.

Delegates will be guided through all aspects of reservoir and pumpstation construction through the example City of St. Albert Sturgeon Reservoir project through all phases, including but not limited to concept through capital planning, engineering design, procurement, and construction to commissioning. Similarly to other projects, through this workshop many of the opportunities, challenges and solutions experienced by the City of St. Albert having embarked on a typical design-bid-build approach to 'the pivot' and direction in moving forward with integrated project delivery will be shared with delegates.

The scope of this project and workshop also encompasses reservoir, pumpstation and off-site infrastructure rehabilitation vs replacement, addressing public concerns and perspectives, engaging stakeholders, responding to the unplanned, choosing by advantages and last-responsible-moment decision making.

Beyond this project, both Brian and Jason bring over 50 years combined career experience in water and wastewater including design, construction and operations of water reservoirs and pump stations. As engaging speakers, interaction with delegates will be occurring throughout the workshop, and those present will have take-away value-added knowledge being prepared to bring an operations perspective should they be part of a future water reservoir and pumpstation construction project.

12:00pm – 7:00pm **R Registration Desk** Banff Park Lodge (201 Lynx Street, Banff)

Sponsors: ISL Engineering, Taber Solids Control 1998 Ltd

Registered Delegates: Pick up your delegate package that has all you will need for the week!

ONSITE REGISTRATION INFORMATION:

- Full week and single day passes are **SOLD OUT**. There is no on-site registration for these packages.
- Trade Show viewing only - passes for the trade show can be purchased onsite for \$100+GST per person. Note that this pass does not have access to the technical program or networking events (access ends Tuesday).

Information Counter: Ask your questions about the Seminar and the events for the week here.

Exhibitors - booth envelopes are available for pick up Monday Mar 10th after 11:00 am. Changes to your name tags can also be made at this location. For questions about your booth, please contact kmihaychuk@awwoa.ca

- 2025 DELEGATE BAG SPONSORS - Taber Solids Control
- 2025 LANYARD SPONSORS - ISL

P **Pre-Seminar Workshop #3 - Optimizing Wastewater Biology with Bioaugmentation: The Truth about Bacterial and Enzyme Supplements**

Banff Centre (Kinnear Building) (107 Tunnel Mountain Drive)

Speakers: Ray Menard

In the evolving field of wastewater treatment, bioaugmentation has emerged as a promising strategy to enhance the biological processes critical to maintaining efficient and effective operations. This presentation aims to provide wastewater operators with a thorough understanding of bioaugmentation, focusing on the application and impact of bacterial and enzyme supplements.

We will begin with an overview of the biological processes in wastewater treatment, emphasizing the roles of bacteria and enzymes. This foundational knowledge will allow a deeper exploration of bacterial and enzyme supplements, explaining how they are created and what makes them effective. Attendees will learn about the different types of bacterial products, their mechanisms of action, and the specific conditions required for their optimal performance. We will also cover enzyme supplements, highlighting their applications and how they complement bacterial processes.

The presentation will address common issues encountered in wastewater treatment, such as fats, oils, and grease (FOGs), loss of nitrification, high ammonia levels, midge flies, and sludge accumulation. We will discuss the underlying biological challenges for each issue and how targeted bioaugmentation can provide solutions.

Practical considerations for selecting and using bacterial and enzyme products will be provided. We will provide tools and methods for product selection and evaluating product effectiveness, including microfilament analysis and origins testing, sludge surveys, influent/effluent monitoring, and screening tests. Attendees will gain insights into pilot and small-scale long-term studies that can help predict full-scale performance.

We will present detailed case studies to illustrate the real-world application of these concepts. Each case study will provide valuable lessons and best practices that operators can apply to their facilities.

Finally, we will conclude with a wrap-up and a Q&A session, allowing attendees to engage with the material and address specific questions or concerns.

1:00pm – 4:30pm

P Pre-Seminar Workshop #4 - Goldfish Invasion: Round 2 Knock-Out Punch

Speakers: Logan Gebbink, Monique Johnson

Banff Centre (Kinnear Building) (107 Tunnel Mountain Drive)

Sylvan Lake's storm pond, situated on the south end of town, has a significant goldfish infestation, compelling the dewatering and manual removal of goldfish due to the unavailability of approved chemical solutions like rotenone. This presentation sheds light on the hurdles faced during manual removal efforts and aims to share challenges that municipalities, constrained by chemical availability, are encountering.

NOTE: You must have a separate, paid registration to attend this workshop (NOT included in a full seminar registration). If you have not received a receipt and confirmation of workshop registration, entrance will not be permitted. On-site registration or walkups are NOT accepted.

Presentation Overview

With the absence of rotenone, our team embarked on manual removal techniques, employing methods such as netting and dewatering. The difficulties of this approach were compounded by unpredictable weather conditions and a persistent natural spring feeding the pond, highlighting the limitations municipalities face without access to approved chemical solutions.

Regulatory Compliance and Enumeration

Navigating Alberta Environment and Protected Areas regulations, our team was required to secure a fish research license, a process including collaborative effort needed with regulatory bodies when conventional chemical solutions are unavailable. Enumerating, identifying and reporting the goldfish population became imperative.

Community Engagement and Shared Struggles

Recognizing this problem is created by lack of knowledge and education by residents. To address the challenges faced by municipalities without rotenone availability, we have initiated a public education campaign. This campaign aims not only to inform our local community but to raise awareness, understanding and support for municipalities fighting with similar issues. This is with interdepartmental collaboration (Public Works, Parks and Recreation and Communication Departments)

Lessons Learned and Collaboration

The presentation will highlight the lessons learned throughout this project, emphasizing the importance of collaboration and shared experiences. By addressing the issues faced without rotenone, we hope to spark a broader conversation on the need for accessible and effective solutions for municipalities navigating goldfish infestations.

Conclusion

Sylvan Lake's experience can serve as a case study, not only in goldfish eradication but also in highlighting the pressing need for accessible and approved chemical solutions for municipalities facing similar challenges. By sharing our struggles, successes, and lessons learned, we aim to incite a collaborative approach to environmental restoration within the broader municipal community.

PINNED

3:00pm – 8:00pm

S Silent Auction 3:00pm to 8:00pm

Banff Park Lodge (201 Lynx Street, Banff)

Make your way to the Pine Room and place your bid on a treasure! All proceeds go to the Water School.

PINNED

3:00pm – 8:00pm

D Trade Show 3:00pm to 8:00pm

Banff Park Lodge (201 Lynx Street, Banff)

A variety of Trade Show Booths highlighting the latest industry products, services and technologies. Play the "FIND THE HYDRANT GAME" for great prizes. Check your registration package for details.

PINNED

4:00pm – 8:00pm

N Networking Event - Trade Show Reception 4:00pm to 8:00pm

Banff Park Lodge (201 Lynx Street, Banff)

The Trade Show kicks into high gear with a Reception including food, drinks and fun for all! This is a great opportunity to network and learn! Check your registration package for tickets. Don't forget your nametag!

MARCH 11 • TUESDAY

8:00am – 3:00pm

R Registration Desk

Banff Park Lodge (201 Lynx Street, Banff)

Sponsors: ISL Engineering, Taber Solids Control 1998 Ltd

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- **2025 LANYARD SPONSORS - ISL**

8:30am – 12:00pm

P Pre-Seminar Workshop #5 - Embedded Acoustic Leak Detection - Resolving Water Loss & Preventing Main Breaks

Banff Centre (Kinnear Building) (107 Tunnel Mountain Drive)

Speakers: Keesha Dorosz, Oleksandr Rudkovskyi, Graham Mattison

Current methods are falling short in addressing non-revenue water (NRW) reduction in Canada, where water conservation, operational efficiency, and accurate billing are critical priorities. This session will highlight success stories from real-world utilities that have embraced integrated Acoustic Leak Detection (ALD) technology to monitor and alert to distribution side leakage with precision.

By accelerating leak detection and improving accuracy, these utilities have significantly reduced their cost per identified leak and tackled low-hanging opportunities to reduce their water loss. Advanced water meter technology is proving to be a game-changer, enabling utilities to take meaningful strides toward sustainable water management.

Attendees will gain actionable insights and strategies to adopt these innovative solutions, transforming water distribution systems into models of environmental responsibility and operational excellence. Moreover, these advancements can help utilities stabilize their infrastructure, preventing catastrophic water main breaks and staying out of unwanted headlines. This presentation underscores the tangible benefits of integrating cutting-edge technologies, making a compelling case for sustainability-driven modernization.

8:30am – 12:00pm

P Pre-Seminar Workshop #6 - Asset Management for Water and Wastewater Infrastructure

Speakers: David Speed, Nelson Marsh, Gavin Applin

Banff Centre (Kinnear Building) (107 Tunnel Mountain Drive)

Asset Management is a focus for public works departments across Canada. The foundation of a strong Asset Management plan is an accurate asset inventory:

- What does the municipality own?
- Where is it located?
- What condition is it in?
- What is the expected remaining life?
- What is the replacement cost?

As-built drawings can generally be used to answer question, but asset location and condition can only be determined with field studies.

We will present Asset Management concepts for water infrastructure and practical and cost-effective techniques for gathering the required field data. Operators can then use this field data to more effectively run their systems, as well as implement strategies to extend asset life and functionality.

Detailed case studies will be used to explain all concepts and techniques. These best-practice examples are based on our work with more than 150 municipalities across Canada. Each example will include a discussion of available equipment.

Specific workshop topics will include:

- Asset location - using and updating GIS maps for infrastructure location (hydrants; manholes; pipes; etc)
- Flow monitoring for sanitary and storm sewers
- Corrosion monitoring in sanitary and storm sewers
- Condition assessments; including sewer smoke testing; CCTV inspection; water system leak detection and others.

We will provide feedback from operators that have employed these techniques; as well as how the field data is being used in system operations and planning. We will display equipment and have interactive portions throughout the workshop.

NOTE: You must have a separate, paid registration to attend this workshop (NOT included in a full seminar registration). If you have not received a receipt and confirmation of workshop registration, entrance will not be permitted. On-site registration or walkups are NOT accepted.

PINNED

10:00am – 3:00pm

D Trade Show 10:00am to 3:00pm

Banff Park Lodge (201 Lynx Street, Banff)

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PINNED

10:00am – 4:00pm

S Silent Auction - 10:00am to 4:00pm

Banff Park Lodge (201 Lynx Street, Banff)

Make your way to the Pine Room and place your bid on a treasure! All proceeds go to the Water School.

PINNED

12:00pm – 1:30pm

B Lunch - Sponsored by: Aquatech Diving & Marine Services Ltd., Capital H2O, IVIS Inc. and Napier-Reid - 12:00pm - 1:30pm

Banff Park Lodge (201 Lynx Street, Banff)

Sponsors: Nexom/Napier-Reid, Capital H2O Systems Inc, IVIS Construction Inc, Aquatech Diving & Marine Services Ltd

Thank you to Aquatech Diving & Marine Services , Capital H2O, IVIS Inc. and Napier-Reid for their generous contributions to today's lunch.

PINNED

4:15pm – 5:00pm

S Silent Auction Item Pickup 4:15pm to 5:00pm

Banff Park Lodge (201 Lynx Street, Banff)

Please pick up your Auction Items by 5:00pm

5:30pm – 7:00pm

N Women of Water (WOW) - Networking Event - 5:30pm to 7:00pm

Elk & Oarsman Pub (119 Banff Avenue, Banff)

Calling all Women of Water! Join us for the third year of this event as we share the many successes and stories of women working in the water and wastewater industry.

PINNED

7:00pm – 11:00pm

N **Pub Networking Night - 7:00pm to 10:00pm - Sponsored by Algae Control Canada & Klearwater Equipment and Technologies**

Elk & Oarsman Pub (119 Banff Avenue, Banff)

Sponsors: ACC Water Solutions Inc, Klearwater Equipment & Technologies

Join us at the Elk & Oarsman Pub for Pub Night. Enjoy appetizers, drinks and conversation with your fellow industry professionals. Thank you to ACC Water Solutions Inc. and Klearwater Equipment and Technologies for Sponsoring this event!

MARCH 12 • WEDNESDAY

8:30am – 12:30pm
R **Registration Desk**
Banff Park Lodge (201 Lynx Street, Banff)

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PINNED
C **Official Seminar Opening & Awards Presentation - 9:00am to 10:00am**
Banff Park Lodge (201 Lynx Street, Banff)

9:00am – 10:00am

Speakers: Chris Huston, Gerald Samuel

Official Seminar Opening Session. Special Past Chair Acknowledgement; Awards Presentation: Gerald Samuel Operator of the Year Award, Ron Bayne Service Award, Steve Blonsky Honorary Life Membership Award, Presentation of AWWOA's 10, 20, 30 and 40 Year

PINNED
C **Alberta Environment and Parks Update - 10:00am to 10:30am**
Banff Park Lodge (201 Lynx Street, Banff)

10:00am – 10:30am

Speakers: Steve Craik

EPA will provide highlights of the key regulatory initiatives related to drinking water and municipal wastewater that the department and will touch on where we have been, where we are now and what is on potentially on the horizon. Drinking water topics will include the new fluoride limit implementation plan, a lead management program update, status of the micro waterworks initiative, and the impact of new Health Canada guideline on PFAS chemicals. We will review recent and upcoming changes to other Health Canada drinking water guidelines that we are tracking. On wastewater, EPA will summarize our on-going efforts to facilitate innovation for small wastewater systems.

PINNED
B **Break 10:30am to 10:45am**
Banff Park Lodge (201 Lynx Street, Banff)

10:30am – 10:45am

Break

PINNED
C **The Water School - 10:45am to 11:00am**
Banff Park Lodge (201 Lynx Street, Banff)

10:45am – 11:00am

Speakers: Dave Ericson

Get an update form AWWOA's Charity of Choice - The Water School

PINNED
C **Keynote Presentation - Talking with Canadians - Rick Mercer**
Banff Park Lodge (201 Lynx Street, Banff)

11:00am – 12:00pm

Speakers: Rick Mercer

Rick Mercer is without a doubt one of this country's most highly respected writers and actors. His knack for political and social satire has earned him over 25 Gemini Awards for his top-rated CBC series The Rick Mercer Report, Made in Canada, and This Hour has 22 Minutes. His CBC special Rick Mercer's Talking to Americans attracted 2.7 million viewers across Canada, making it the highest rated comedy special in the history of Canadian television. He is a #1 Toronto Star and Globe and Mail bestselling author, most recently publishing the memoir The Road Years: a memoir continued, a revealing and hilarious look at his personal life and unconventional rise to TV fame. His other books include Talking to Canadians: a memoir, as well as Rick Mercer Final Report, Streeters, Rick Mercer Report: The Book, and A Nation Worth Ranting About. Rick was recently honoured with the Governor General's Lifetime Achievement Award, as well as the Stephen Leacock Medal for Humour. As someone who understands what amuses, delights, and occasionally enrages Canadians about our politicians, our media, and our neighbour to the south, Rick has made his mark on Canadian culture and helped to define what it means to be Canadian.

PINNED
B **Lunch 12:00pm to 1:30pm**
Lunch on your own - please return for 1:30pm start

12:00pm – 1:30pm

The Town of Banff has many great options for lunch. Have fun exploring! - Please be back for 1:30pm Technical Session Start.

1:30pm – 2:15pm	T	Session A - Waste Gas Burner Upgrades at all 3 Wastewater Plants for the City of Calgary <i>Speakers: Sean Killoran, Josh Sonnenberg</i>	Banff Park Lodge (201 Lynx Street, Banff)
1:30pm – 2:15pm	T	Session B - Supporting Alberta Drinking Water Systems in Wildfire-Impacted Watersheds <i>Speakers: Jesse Skwaruk, Aaron Janzen</i>	Banff Park Lodge (201 Lynx Street, Banff)
1:30pm – 2:15pm	T	Session C - Town of 2,500 saving \$700,000 per Year Through Infrastructure Maintenance <i>Speakers: Shane Vollett, Reilly Roberts</i>	Banff Park Lodge (201 Lynx Street, Banff)
1:30pm – 2:15pm	T	Session D - Dude, Where's My Stormwater Pond? <i>Speakers: Andrew Ambrocichuk</i>	Banff Park Lodge (201 Lynx Street, Banff)
2:15pm – 2:45pm	T	Session A - Optimizing Clarifier Drives: Inspection, Maintenance, and Rebuilding <i>Speakers: Eric Anderson, Francois DuBois</i>	Banff Park Lodge (201 Lynx Street, Banff)
2:15pm – 2:45pm	T	Session B - Don't Go Dry: Water Well Operations and Maintenance <i>Speakers: Soren Poschmann, Fergus Campbell</i>	Banff Park Lodge (201 Lynx Street, Banff)
2:15pm – 2:45pm	T	Session C - What Do You Need in a Lift Station Control Panel? <i>Speakers: Abram McAlear</i>	Banff Park Lodge (201 Lynx Street, Banff)
2:15pm – 2:45pm	T	Session D - Water's Role in Uniting Operators, Communities, and Futures: A Global Perspective <i>Speakers: Mike Hewitt, Asmahan Rabo</i>	Banff Park Lodge (201 Lynx Street, Banff)
PINNED 2:45pm – 3:00pm	B	Break Break	Banff Park Lodge (201 Lynx Street, Banff)
3:00pm – 3:30pm	T	Session A - Standard Operational Procedures for Lagoon Facilities <i>Speakers: Niema Afroze</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:00pm – 3:30pm	T	Session B - Treatment Options for Meeting Health Canada's Fluoride MAC's in Groundwater <i>Speakers: Alex Simon, Jonathan Shandro</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:00pm – 3:30pm	T	Session C - Valves Don't Age Like Wine: Managing an Aging Control Valve System <i>Speakers: Steve Causseaux</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:00pm – 3:30pm	T	Session D - Responding to Emergencies <i>Speakers: Kevin Johnson, Stephanie Roppelt</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:45pm – 4:45pm	A	Annual General Meeting <i>Speakers: Chris Huston, Dan Rites</i> AWWOA's Annual General Meeting - Must be a member in good standing to participate in the meeting motions and voting.	Banff Park Lodge (201 Lynx Street, Banff)
PINNED 7:30pm – 10:30pm	N	Casino Night Networking Event - Sponsored by Wolseley Canada with co-sponsors Mueller and IPEX <i>Sponsors: Wolseley Canada</i> Join us for fun and games at the Fun Money Casino Night. Great networking opportunity with many chances to win great prizes! <i>Snacks and subsidized cash bar will be available.</i>	Banff Park Lodge (201 Lynx Street, Banff)

MARCH 13 • THURSDAY

8:30am – 10:15am **R Registration Desk** Banff Park Lodge (201 Lynx Street, Banff)
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- **2025 LANYARD SPONSORS - ISL**

9:00am – 9:30am **T Session A - Implementation of Total Phosphorus Reduction in WWTP Effluent at 4 Wing Canadian Forces Base Cold Lake** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Adam Dul

9:00am – 9:30am **T Session B - Bow Island WTP Rockwell SLC 5/05 Migration Case Study** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Nick Sawatzky

9:00am – 9:30am **T Session C - A Chemical Perspective on the Utilization of Rotenone in Stormwater Ponds as Piscicide for Goldfish Populations** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Brody Andersen

9:00am – 9:30am **T Session D - Exploding Demand - A Race to Keep Up: Exploring the WILD Story Behind the WILDRWSC** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Sophie Sadowski, Joe Duplessie, Jason Madge

9:30am – 10:15am **T Session A - Tackling H2S and FOG in your Sewer! Town of Diamond Valley Project Review - Part II** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Jonathan Lee

9:30am – 10:15am **T Session B - Chemical Feed Systems: Upgrades to Prevent Leaks and Unnecessary Maintenance** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Justin Giroux

9:30am – 10:15am **T Session C - Lift Station Maintenance Optimization as Implemented in the EPCOR Storm and Sanitary Stations within the City of Edmonton** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Nicole Ewing, Clayton Perron

9:30am – 10:15am **T Session D - Clear Waters Ahead: The Development of EPCOR's Uni-Directional Flushing Program and Where We Are Today** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Shawni Lupaschuk
 Explore the origins of EPCOR's Uni- Directional flushing program, and how it has evolved over time. Included is an overview of EPCOR's water distribution system and an explanation why this method is optimal for our routine flushing program. Key points will include the advantages of a UDF program, the criteria we use to determine flushing frequency, the adjustments we've made to our priorities over the years, as well as other factors to consider when flushing water distribution mains.

PINNED **B Break** Banff Park Lodge (201 Lynx Street, Banff)
10:15am – 10:45am

10:45am – 11:15am **T Session A - Sleep Deprivation: Signs; Symptoms; Effects and How to Address It** Banff Park Lodge (201 Lynx Street, Banff)
Speakers: Ryan Vogelgesang, Mark Morrison
 Operators working in plants requiring 24/7 attendance commonly follow shift schedules and are required to work night shifts; leading to sleep deprivation. This discussion will address how to recognize the signs and symptoms of sleep deprivation; and how it affects your personal; home and work life. It will also look at 2 recent studies that were done about a possible future blood test for sleep exhaustion and how cursing may provide a short-term boost to alertness.

10:45am – 11:15am	T	Session B - Back to the Well: Revisiting the Case for Direct Feed RO <i>Exhibitors: Daine Todd</i>	Banff Park Lodge (201 Lynx Street, Banff)
10:45am – 11:15am	T	Session C - Service Lateral Maintenance Strategies <i>Speakers: Mark Wille, Stefan Tirschmann</i>	Banff Park Lodge (201 Lynx Street, Banff)
10:45am – 11:15am	T	Session D - Effective Budgeting and Resource Allocation for Community Impact <i>Speakers: Scott Dallas</i>	Banff Park Lodge (201 Lynx Street, Banff)
11:15am – 12:00pm	T	Session A - Saving Time and Money with an Operation and Maintenance Specialist <i>Speakers: Kerri Barenz</i>	Banff Park Lodge (201 Lynx Street, Banff)
11:15am – 12:00pm	T	Session B - Operator Involvement and Leadership: Commissioning at the Glenmore Water Treatment Plant <i>Speakers: Anne Bridgman, Jibin Kottayil</i>	Banff Park Lodge (201 Lynx Street, Banff)
11:15am – 12:00pm	T	Session C - See & Hear the 3-Types of Centrifugal Pump Cavitation <i>Speakers: Stefan Fediw</i>	Banff Park Lodge (201 Lynx Street, Banff)
11:15am – 12:00pm	T	Session D - “The Field of Dreams” – Water System Contamination to Recovery <i>Speakers: Grant Dixon, Al MacAllister</i>	Banff Park Lodge (201 Lynx Street, Banff)
PINNED 12:00pm – 1:30pm	B	Lunch 12:00pm to 1:30pm	Lunch on your own - please return for 1:30pm start
1:30pm – 2:00pm	T	Session A - Zero Chlorine Sensor – Key to Dechlorination <i>Speakers: Hashanth Sasitharan, Brett Smith</i>	Banff Park Lodge (201 Lynx Street, Banff)
1:30pm – 2:00pm	T	Session B - Lessons Learned - Reverse Osmosis Package Integration to an Existing Facility <i>Speakers: Patrick Perera</i>	Banff Park Lodge (201 Lynx Street, Banff)
1:30pm – 2:00pm	T	Session C - Sewer Force Mains “A Pro-active Approach to Asset Management of these Often-overlooked Buried Pipelines” <i>Speakers: Kelsey Schellenberg</i>	Banff Park Lodge (201 Lynx Street, Banff)
1:30pm – 2:00pm	T	Session D - Decoding the Pump Curve and Other Pump Basics <i>Speakers: Bailey Ferguson, Bob Hawboldt</i>	Banff Park Lodge (201 Lynx Street, Banff)
2:00pm – 2:45pm	T	Session A - Bridging the Gap: Integrating Real-Time Lab Data into Wastewater Treatment Plant Operations with VTSCADA; Low-cost Hardware; and Custom 3D Printing <i>Speakers: Lee Allen, Chase Morrell</i>	Banff Park Lodge (201 Lynx Street, Banff)
2:00pm – 2:45pm	T	Session B - Optimizing Freshwater Quality Through Advanced Oxygation Techniques <i>Speakers: Ray Menard, Dhaval Vaghasiya</i>	Banff Park Lodge (201 Lynx Street, Banff)
2:00pm – 2:45pm	T	Session C - Inflow & Infiltration Mitigation - For Operators <i>Speakers: Ravi Nagarajan</i>	Banff Park Lodge (201 Lynx Street, Banff)
2:00pm – 2:45pm	T	Session D - Water Meter Exchange Program - It's All About Communication <i>Speakers: Leanne Lammertsen, Dustin Smith, Liam Nixon</i>	Banff Park Lodge (201 Lynx Street, Banff)
PINNED 2:45pm – 3:00pm	B	Break Break	Banff Park Lodge (201 Lynx Street, Banff)
3:00pm – 3:30pm	T	Session A - Dewatering Technology Upgrade: From Centrifuges to Rotary Presses <i>Speakers: Gareth Kingsford, Liva Tessier</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:00pm – 3:30pm	T	Session B - Lethbridge WTP Filter Capacity Upgrades <i>Speakers: Robert Keith, Tyler Bennett</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:00pm – 3:30pm	T	Session D - Field Level Communication Enhancement <i>Speakers: Dallas Weiss, Brent Wolfe, Alex Dowds</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:30pm – 4:00pm	T	Session A - Managing FOG in Your Wastewater System: A Pathway to Success <i>Speakers: Didier Arnould, Ethan Yeomans</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:30pm – 4:00pm	T	Session B - City of Red Deer - Water Treatment Plant Liquid Ammonium Sulfate Upgrades <i>Speakers: Cynthia Lee, Jarrett McAuley</i>	Banff Park Lodge (201 Lynx Street, Banff)
3:30pm – 4:00pm	T	Session D - Alberta Environment and Protected Areas – Certification Update <i>Speakers: Christine Donovan, Tammy Elzinga</i>	Banff Park Lodge (201 Lynx Street, Banff)

6:00pm – 7:00pm	N Reception - Alpine Meadows	Banff Park Lodge (201 Lynx Street, Banff)
7:00pm – 10:30pm	N Annual Banquet and Awards <i>Speakers: Chris Huston, Nathan Vis</i> Ticketed Event - Annual Banquet - Special Presentation of the Past Chair Award and the Passing of the Gavel	Banff Park Lodge (201 Lynx Street, Banff)
9:00pm – 10:00pm	N Entertainment - Comedy Act <i>Speakers: Kelly Taylor</i> Comedian Kelly Taylor will join us to provide the evening entertainment. Kelly Taylor made his mark early in comedy when he placed second in the prestigious Just for Laughs Homegrown competition.	Banff Park Lodge (201 Lynx Street, Banff)

MARCH 14 • FRIDAY

PINNED

8:30am – 11:45am

T Friday Session - Bearspaw South Feedermain Failure and Return to Service

Speakers: Patrick Van den Eynden, Brad Forsyth, Dana Shirley, Toby Weickert Banff Park Lodge (201 Lynx Street, Banff)

On June 5, 2024, The City of Calgary experienced a catastrophic feedermain break on a 1950 mm transmission line. This line is Calgary's largest and most critical portion of the feedermain network.

An emergency alert was sent out on June 6, requesting residents to conserve water as reservoir volumes depleted. Stage four water restrictions were put in place and strategies were implemented to sustain a summer of repairs. While significantly impacting the distribution system, the situation also required the Glenmore Water Treatment Plant to sustain production near maximum levels, putting added pressure on other critical pump stations.

This session will highlight the impacts of the failure and return to service including:

- assessment of the damage
- communication and actions taken by Water Services
- impacts on surrounding water and wastewater systems
- system stabilization and operation
- consideration and operation of bypasses
- creative repair and contractor options
- flushing, de-chlorination and release into the river
- learnings, failures and lessons

11:45am – 11:50am

C Seminar Closing Remarks

Banff Park Lodge (201 Lynx Street, Banff)

Speakers: Nathan Vis

Thank you for attending the 49th Annual Seminar! Safe travels home!
