

AWWOA 49th Annual Seminar

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

**MARCH 11 • MONDAY**

8:30am – 12:00pm	P	<b>Pre-Seminar Workshop #1 - Critical Leak Repair Without Shutdown - Pre-Registration Needed -</b> <i>Speakers: Brandon Pater</i>	Rocky Mountain Resort (1029 Banff Avenue)
8:30am – 12:00pm	P	<b>Pre-Seminar Workshop #2 - Taste and Odour Mitigation Approaches for Water Utilities – Recent Learnings - Pre-Registration Needed -</b> <i>Speakers: Klas Ohman</i>	Rocky Mountain Resort (1029 Banff Avenue)
12:00pm – 7:00pm	R	<b>Registration Desk</b> <i>Sponsors: ISL, Taber Solids Control</i>	Banff Park Lodge (222 Lynx Street, Banff)
1:00pm – 4:30pm	P	<b>Pre-Seminar Workshop #3 - SCADA Systems – Basics to Emerging Technologies - Pre-Registration Needed -</b> <i>Speakers: Nick Sawatzky, Zane Spencer</i>	Rocky Mountain Resort (1029 Banff Avenue)
1:00pm – 4:30pm	P	<b>Pre-Seminar Workshop #4 - Advanced Wastewater Treatment Processes (Effluent Polishing) - Pre-Registration Needed -</b> <i>Speakers: Maryam Izadifard</i>	Rocky Mountain Resort (1029 Banff Avenue)
	S	<b>Silent Auction 3:00pm to 8:00pm</b>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 3:00pm – 8:00pm			
	D	<b>Trade Show 3:00pm to 8:00pm</b>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 3:00pm – 8:00pm			
	N	<b>Networking Event - Trade Show Reception 4:00pm to 8:00pm</b>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 4:00pm – 8:00pm			

# AWWOA 49th Annual Seminar

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

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## MARCH 12 • TUESDAY

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8:00am – 3:00pm	<b>R Registration Desk</b> <i>Sponsors: ISL, Taber Solids Control</i>	Banff Park Lodge (222 Lynx Street, Banff)
8:30am – 12:00pm	<b>P Pre-Seminar Workshop #5 - Robotics Assistance for Operators - Pre-Registration Needed -</b> <i>Speakers: Laurent Cataye</i>	Rocky Mountain Resort (1029 Banff Avenue)
8:30am – 12:00pm	<b>P Pre-Seminar Workshop #6 - Chloramines (Total Chlorine) Boosting - Pre-Registration Needed -</b> <i>Speakers: Emily Liu, Simon Patterson, Win Tun</i>	Rocky Mountain Resort (1029 Banff Avenue)
<b>PINNED</b> 10:00am – 3:00pm	<b>D Trade Show 10:00am to 3:00pm</b>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 10:00am – 4:00pm	<b>S Silent Auction - 10:00am to 4:00pm</b>	Banff Park Lodge (222 Lynx Street, Banff)
12:00pm – 1:30pm	<b>B Lunch - Sponsored by: Aquatech Diving &amp; Marine Services Ltd. and Pipetech Rentals - 12:00pm - 1:30pm</b> <i>Sponsors: Pipetech Rentals</i>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 4:15pm – 5:00pm	<b>S Silent Auction Item Pickup 4:15pm to 5:00pm</b>	Banff Park Lodge (222 Lynx Street, Banff)
5:30pm – 7:00pm	<b>N Women of Water (WOW) - Networking Event - 5:30pm to 7:00pm</b>	Elk & Oarsman Pub (119 Banff Avenue, Banff)
<b>PINNED</b> 7:00pm – 10:00pm	<b>N Pub Networking Night - 7:00pm to 10:00pm - Sponsored by Algae Control Canada &amp; Klearwater Equipment and Technologies</b> <i>Sponsors: ACC Water Solutions, Klearwater Equipment &amp; Technologies</i>	Elk & Oarsman Pub (119 Banff Avenue, Banff)

# AWWOA 49th Annual Seminar

A AGM  
 B Break  
 N Networking Event  
 R Registration Desk  
 C Special Presentation  
 T Technical Session

## MARCH 13 - WEDNESDAY

8:30am – 12:30pm	<b>R Registration Desk</b> <i>Sponsors: ISL, Taber Solids Control</i>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 9:00am – 9:30am	<b>C Official Seminar Opening &amp; Awards Presentation - 9:00am to 9:30am</b> <i>Speakers: Mike Bureaud</i>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 9:30am – 10:25am	<b>C Alberta Environment and Protected Areas Update - 9:30am to 10:25am</b> <i>Speakers: Darren Bourget, Michael Conboy, Steve Craik, Jeffrey Wu</i>	Banff Park Lodge (222 Lynx Street, Banff)
10:25am – 10:40am	<b>B Break 10:25am to 10:40am</b>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 10:40am – 11:00am	<b>C Water Professionals International</b>	Banff Park Lodge (222 Lynx Street, Banff)
<b>PINNED</b> 11:00am – 12:00pm	<b>C Keynote Speaker - Tyler Smith</b> <i>Speakers: Tyler Smith</i> <i>Sponsors: ATAP Infrastructure Management Ltd</i>	Banff Park Lodge (222 Lynx Street, Banff)
12:00pm – 1:30pm	<b>B Lunch 12:00pm to 1:30pm</b>	Lunch on your own - please return for 1:30pm start.
1:30pm – 2:15pm	<b>T Session A - Balancing Act: Strategies for Navigating Droughts in Alberta Waterways through Operational Water Management</b> <i>Speakers: Mustafa Hashimi, Chad Moore</i>	Banff Park Lodge (222 Lynx Street, Banff)
1:30pm – 2:15pm	<b>T Session B - Kehewin Cree Nation Partners with Industry - Digital Water Treatment Process Model</b> <i>Speakers: Denise Dodds, Shannon Gladue, Linnea Russell, Jessica Wiens</i>	Banff Park Lodge (222 Lynx Street, Banff)
1:30pm – 2:15pm	<b>T Session C - The Challenges of Aquatic Invasive Species Eradication Without Rotenone</b> <i>Speakers: Monique Johnson, Lindsey Kowalchuk</i>	Banff Park Lodge (222 Lynx Street, Banff)
1:30pm – 2:15pm	<b>T Session D - ACTIFLO / Power Consumption</b> <i>Speakers: Ashwani Attri</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:15pm – 2:45pm	<b>T Session A - Smart Technology for Wastewater Operations/Inflow and Infiltration Detection</b> <i>Speakers: Rod Schnell</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:15pm – 2:45pm	<b>T Session B - Trouble Shooting and Chemical Optimization</b> <i>Speakers: Doug Riddell, Klearwater Equipment &amp; Technologies</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:15pm – 2:45pm	<b>T Session C - Choosing the Right Dancing Partner: Tendering Strategies for Capital Projects</b> <i>Speakers: Devon Fedor</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:15pm – 2:45pm	<b>T Session D - EPCOR Gold Bar WWTP Sludge Densification</b> <i>Speakers: Luke Opry, Julian Xheko</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:45pm – 3:00pm	<b>B Break</b>	Banff Park Lodge (222 Lynx Street, Banff)
3:00pm – 3:30pm	<b>T Session A - Tools of the Trade</b> <i>Speakers: Nicholas Brownoff, Ryan Powell</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:00pm – 3:30pm	<b>T Session B - Water Treatment Tools and Strategies for Spring Runoff on the North Saskatchewan</b> <i>Speakers: Peter Crane, Darren Diprose, Blake Moore</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:00pm – 3:30pm	<b>T Session C - Preventing Motor Failures with Good Cabling Practices</b> <i>Speakers: Ryan Cooke, Ammar Rashid</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:00pm – 3:30pm	<b>T Session D - High Performance Lagoon Systems</b> <i>Speakers: Tom Birkeland</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:45pm – 4:45pm	<b>A Annual General Meeting</b> <i>Speakers: Dan Rites, Mike Bureaud</i>	Banff Park Lodge (222 Lynx Street, Banff)
7:30pm – 10:30pm	<b>N Networking Event - Casino Night - Sponsored by Wolseley Canada with co-sponsors Clow Canada, Trojan Industries, Pro-Line Fittings, Westlake Pipe &amp; Fittings, and GF Urecon</b> <i>Sponsors: Wolseley Waterworks</i>	Banff Park Lodge (222 Lynx Street, Banff)

# AWWOA 49th Annual Seminar

**B** Break   **N** Networking Event   **R** Registration Desk   **T** Technical Session

## MARCH 14 • THURSDAY

8:30am – 10:15am	<b>R Registration Desk</b> <i>Sponsors: ISL, Taber Solids Control</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:00am – 9:30am	<b>T Session A - Why Isn't Spilled Water a Party Foul</b> <i>Speakers: Travis Smith</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:00am – 9:30am	<b>T Session B - Waste Residuals Management at Surface Water Treatment Plants</b> <i>Speakers: Fengqin Wang</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:00am – 9:30am	<b>T Session C - Catch of the Day</b> <i>Speakers: Dorte Koster, Nikki Unsworth</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:00am – 9:30am	<b>T Session D - Wetland Wonderland: Taking the Waste Out of Water</b> <i>Speakers: Julian Botero-Artuso, Elizabeth Calvin</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:30am – 10:15am	<b>T Session A - Optimization in WWTP Lift Stations</b> <i>Speakers: Satish Padmashali</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:30am – 10:15am	<b>T Session B - The Basics on Electrical Equipment Used by Operators and Maintenance - MCC, Switchgear, VFDs, SoftStarts and Motors</b> <i>Speakers: Kevin Laviolette, Cedric Rosario</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:30am – 10:15am	<b>T Session C - Leveraging the Cloud for Real-Time Operational Insights</b> <i>Speakers: Ali Mousavi, Jeff Smith</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:30am – 10:15am	<b>T Session D - The Advantages of Rare Earth Coagulation for Reducing Chemical Sludge Production During Phosphorous Removal</b> <i>Speakers: Kevin Bossy</i>	Banff Park Lodge (222 Lynx Street, Banff)
10:15am – 10:45am	<b>B Break</b>	Banff Park Lodge (222 Lynx Street, Banff)
10:45am – 11:15am	<b>T Session A - IoT Remote Monitoring - Case Study</b> <i>Speakers: Nick Sawatzky</i>	Banff Park Lodge (222 Lynx Street, Banff)
10:45am – 11:15am	<b>T Session B - Coagulation Modelling at the Fort McMurray Water Treatment Plant</b> <i>Speakers: Tyler Bennett, John Michalopoulos</i>	Banff Park Lodge (222 Lynx Street, Banff)
10:45am – 11:15am	<b>T Session C - Town of Taber Stormwater Wetland Project</b> <i>Speakers: John Browning, Brent Hamilton, Ramin Lahiji</i>	Banff Park Lodge (222 Lynx Street, Banff)
10:45am – 11:15am	<b>T Session D - Managing FOGs in Wastewater Collection and Treatment Systems with Biological Products</b> <i>Speakers: Ray Menard</i>	Banff Park Lodge (222 Lynx Street, Banff)
11:15am – 12:00pm	<b>T Session A - Controller for WW Pumping Stations that Easily Adapts as Your Needs Change</b> <i>Speakers: Luc-Rejean Lepine</i>	Banff Park Lodge (222 Lynx Street, Banff)
11:15am – 12:00pm	<b>T Session B - Increasing Availability and Reliability with Onboard Diagnostics</b> <i>Speakers: Conor Heeney, Mark McDowell</i>	Banff Park Lodge (222 Lynx Street, Banff)
11:15am – 12:00pm	<b>T Session C - How Lethbridge Got the Lead Out</b> <i>Speakers: Leanne Lammertsen, Luis Rauda, Doug Winters</i>	Banff Park Lodge (222 Lynx Street, Banff)
11:15am – 12:00pm	<b>T Session D - When Your New Permit Requires Ammonia &amp; TN Removal, Consider MABR Technology</b> <i>Speakers: Neri Nathan, Bruce Stevens</i>	Banff Park Lodge (222 Lynx Street, Banff)
12:00pm – 1:30pm	<b>B Lunch</b>	Lunch on your own - please return for 1:30pm start.
1:30pm – 2:00pm	<b>T Session A - Finding Challenging Water Leaks - Leaks that Don't Surface Where They are Leaking</b> <i>Speakers: Brad Forsyth, Toby Weickert</i>	Banff Park Lodge (222 Lynx Street, Banff)
1:30pm – 2:00pm	<b>T Session B - Impact of Equipment Sizing on Plant Operations</b> <i>Speakers: Max Wong</i>	Banff Park Lodge (222 Lynx Street, Banff)
1:30pm – 2:00pm	<b>T Session C - Municipal Water Education for Behaviour Change</b> <i>Speakers: Vanessa Higgins</i>	Banff Park Lodge (222 Lynx Street, Banff)
1:30pm – 2:00pm	<b>T Session D - Bioaugmentation to Remove Sludge from Wastewater Lagoon in Northern Climate - A Case Study with Ontario Clean Water Agency at Bruce Mines Ontario</b> <i>Speakers: Jonathan Lee</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:00pm – 2:45pm	<b>T Session A - Mobile Mapping for Field Operations</b> <i>Speakers: Mark Wille, Andrew Wolff</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:00pm – 2:45pm	<b>T Session B - Modern Disinfection Methods, with a Focus on Chlorine. Critical Do's and Don'ts</b> <i>Speakers: Aarthie Fernando, Mark McDowell</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:00pm – 2:45pm	<b>T Session C - Automate Your Subsurface Utility Engineering and Locate Sketching</b> <i>Speakers: Ali Mousavi</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:00pm – 2:45pm	<b>T Session D - Avoiding Pitfalls: Effectively Navigate Wastewater Lagoon Risks with a Robust Lagoon Management Strategy</b> <i>Speakers: Hydrasurvey Ltd., W.R. (Bill) MacMillan</i>	Banff Park Lodge (222 Lynx Street, Banff)
2:45pm – 3:00pm	<b>B Break</b>	Banff Park Lodge (222 Lynx Street, Banff)

3:00pm – 3:30pm	T <b>Session A - The Heartland of Alberta's Approach to Leak Detection</b> <i>Speakers: Javed Mukri</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:00pm – 3:30pm	T <b>Session B - An Update on PFAS in Drinking Water</b> <i>Speakers: Johnny Ke</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:00pm – 3:30pm	T <b>Session D - Modelling of the Aerobic Granular Sludge Process for a WWTP in Western Canada</b> <i>Speakers: Julian Xheko</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:30pm – 4:00pm	T <b>Session A - Odour and Corrosion Control in Municipal Collection Systems</b> <i>Speakers: David Speed</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:30pm – 4:00pm	T <b>Session B - Unveiling the Science of Polymer Activation: Exploring the Benefits through Applications</b> <i>Speakers: Ethan Brooke</i>	Banff Park Lodge (222 Lynx Street, Banff)
3:30pm – 4:00pm	T <b>Session D - Alberta Environment and Protected Areas – Certification Q&amp;A</b> <i>Speakers: Christine Donovan, Tammy Elzinga</i>	Banff Park Lodge (222 Lynx Street, Banff)
6:00pm – 7:00pm	N <b>Reception - Alpine Meadows</b>	Banff Park Lodge (222 Lynx Street, Banff)
7:00pm – 10:30pm	N <b>Annual Banquet and Awards</b> <i>Speakers: Mike Bureaud, Chris Huston</i>	Banff Park Lodge (222 Lynx Street, Banff)
9:00pm – 10:00pm	N <b>Entertainment - Comedy Act</b>	Banff Park Lodge (222 Lynx Street, Banff)

# AWWOA 49th Annual Seminar

**C** Special Presentation    **T** Technical Session

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## MARCH 15 • FRIDAY

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<b>PINNED</b> 8:30am – 11:45am	<b>T</b> <b>Friday Session - Effective Tough Conversations – The Key to High Performing Teams</b> <i>Speakers: Rachelle Lee, Melanie Richmond</i>	Banff Park Lodge (222 Lynx Street, Banff)
11:45am – 11:50am	<b>C</b> <b>Seminar Closing Remarks</b> <i>Speakers: Chris Huston</i>	Banff Park Lodge (222 Lynx Street, Banff)

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