



**ALBERTA WATER & WASTEWATER
OPERATORS ASSOCIATION**

**49th Annual
Operators Seminar**

March 11 - 15, 2024

Banff Park Lodge, BANFF

ALBERTA WATER & WASTEWATER OPERATORS ASSOCIATION

2023 - 2024 EXECUTIVE

Mike Bureaud, Chair

EPCOR Water Services

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Wade Bell

H2O Innovation

AWWOA STAFF

Dan Rites, Executive Director

Kirstin Mihaychuk, Program Manager

Jenna Horning, Membership Services

Erin Ciezki, Seminar Technical Program Coordinator

MONDAY - March 11, 2024

Pre-Seminar Workshops (PRE-REGISTRATION REQUIRED)
Rocky Mountain Resort, 1029 Banff Avenue

Workshop #1 - 8:30 – 12:00 Noon (0.3 CEUs)

Critical Leak Repair Without Shutdown

This workshop will explore a range of critical leak repair solutions as well as strategies for avoiding these challenging situations before they worsen.

Presenter: Brandon Pater, Pacific Flow Control Ltd

Workshop #2 - 8:30 – 12:00 Noon (0.3 CEUs)

Taste and Odour Mitigation Approaches for Water Utilities – Recent Learnings

This workshop will draw upon recent case studies and years of collective experience to mitigate T&O issues that arise in existing water and wastewater systems and show you what to look out for when building new systems.

Presenter: Klas Ohman, Associated Engineering

12:00 - 7:00 pm - Seminar Registration – BPL Hotel Lobby

Workshop #3 - 1:00 – 4:30 (0.3 CEUs)

SCADA Systems – Basics to Emerging Technologies

This workshop will recap the basics of how process control and SCADA systems are constructed, and dive into some of the new technologies that are available in these fields.

Presenters: Zane Spencer and Nick Sawatzky, MPE, a division of Englobe

Workshop #4 - 1:00 – 4:30 (0.3 CEUs)

Advanced Wastewater Treatment Processes (Effluent Polishing)

This workshop will cover advanced wastewater treatment processes by providing an overview of preliminary, primary, and secondary treatment and then focusing on why tertiary treatment is necessary.

Presenter: Maryam Izadifard

3:00 - 8:00 pm

Trade Show Displays - Open for Viewing

Silent Auction - Pine Room

4:00 - 8:00 pm

Trade Show Reception

(Drink ticket redemption continues until 9:00pm at lobby bar only)

NOTES:

TUESDAY - March 12, 2024

8:00 - 3:00 pm – Seminar Registration – BPL Hotel Lobby

**Pre-Seminar Workshops (PRE-REGISTRATION REQUIRED)
Rocky Mountain Resort, 1029 Banff Avenue**

Workshop #5 - 8:30 – 12:00 (0.3 CEUs)

Robotics Assistance for Operators

This workshop will provide an overview of ground, aerial and submersible robotic solutions that are enhancing operator efficiencies and providing safer working conditions for municipal operators.

Presenter: Laurent Cataye, Rocky Mountains Unmanned Systems

Workshop #6 - 8:30 – 12:00 (0.3 CEUs)

Chloramines (Total Chlorine) Boosting

This workshop will assist operators in understanding ammonia-N complications, provide options to boost chloramines and demonstrate how to undertake these boosting strategies.

Presenters: Win Tun and Emily Liu, Alberta Environment and Protected Areas; Simon Patterson, County of Two Hills

10:00 - 3:00 pm Trade Show Displays - Open for Viewing

10:00 - 4:00 pm Silent Auction - Pine Room

**12:00 - 1:30 pm Delegate Lunch - In Display Area
Sponsored by Aquatech Diving & Marine Services Ltd and Pipetech Rentals LP**

4:15 - 5:00 pm Silent Auction Item Pickup - Pine Room

**5:30 – 7:00 pm WOMEN OF WATER (WOW)
NETWORKING EVENT for women in the industry - Hosted by AWWOA
Elk & Oarsman Pub, 119 Banff Avenue**

**7:00 - 10:00 pm PUB NIGHT NETWORKING EVENT -
Sponsored by ACC Water Solutions & Klearwater Equipment & Technologies
Elk & Oarsman Pub, 119 Banff Avenue**

NOTES:

WEDNESDAY - March 13, 2024

8:30 - Noon **REGISTRATION** – Hotel Lobby

9:00 – 9:30 am **Official Opening** – Main Ballroom
Mike Bureaud, AWWOA Chair

Greetings from Western Canada Water
Grant Dixon, WCW President Elect

AWWOA Awards Presentations

- The Gerald Samuel, Operator of the Year Award
- The Ron Bayne, Service Award
- The Steve Blonsky, Life Member Award
- AWWOA – NAIT Achievement Awards

9:30 – 10:25 am **Alberta Environment and Protected Areas**

Drinking Water and Wastewater Update
Steve Craik and Jeffrey Wu, AEPA

2024 Drought Risk Management,
Darren Bourget, AEPA

Audits, Inspections, and Investigations
Michael Conboy, AEPA

10:25- 10:40 am **COFFEE - Alpine Meadows**

10:40 - 11:00 am **Water Professionals International**
Tom Healy, WPI

11:00 - 12:00pm **Keynote Speaker – Sponsored by ATAP**
Tyler Smith – Mental health advocate,
Humbolt Broncos crash survivor and
Amazing Race Canada winner

12:00 - 1:30 pm **LUNCH**

1:30 - 2:15 pm **PRESENTATIONS:**

SESSION A **Balancing Act: Strategies for Navigating
Droughts in Alberta Waterways through
Operational Water Management,**
Mustafa Hashimi and Chad Moore, AEPA

SESSION B **Kehewin Cree Nation Partners with
Industry - Digital Water Treatment Process
Model,** Shannon Gladue, Kehewin Cree
Nation, and Denise Dodds, Jessica Wiens
and Linnea Russell, SLB Canada

SESSION C **The Challenges of Aquatic Invasive Species
Eradication Without Rotenone,**
Monique Johnson and Lindsey Kowalchuk,
Town of Sylvan Lake

SESSION D **ACTIFLO / Power Consumption,**
Ashwani Attri, The City of Calgary

WEDNESDAY - March 13, 2024

2:15 – 2:45 pm PRESENTATIONS:

SESSION A **Smart Technology for Wastewater Operations/Inflow and Infiltration Detection**, Rod Schnell, Accu-Flo Meter Services Ltd.

SESSION B **Trouble Shooting and Chemical Optimization**, Doug Riddell and Kelly Franks, Klearwater Equipment & Technologies

SESSION C **Choosing the Right Dancing Partner: Tendering Strategies for Capital Projects**, Devon Fedor, Alberco Construction Ltd.

SESSION D **EPCOR Gold Bar WWTP Sludge Densification**, Luke Opry and Julian Xheko, Stantec Consulting Ltd.

2:45 – 3:00 pm COFFEE – Alpine Meadows

3:00 – 3:30 pm

SESSION A **Tools of the Trade**, Ryan Powell and Nicholas Brownoff, EPCOR

SESSION B **Water Treatment Tools and Strategies for Spring Runoff on the North Saskatchewan**, Blake Moore, Darren Diprose, and Peter Crane, EPCOR

SESSION C **Preventing Motor Failures with Good Cabling Practices**, Ryan Cooke and Ammar Rashid, ABB

SESSION D **High Performance Lagoon Systems**, Tom Birkeland, Lemna Environmental Technologies

3:45 - 4:45 pm **AWWOA ANNUAL GENERAL MEETING Summit Room**
Executive Election Results
AWWOA - Three Door Prize Draws
Find the Hydrant – Two Draw Prizes

7:30 - 10:30 pm **CASINO NIGHT NETWORKING EVENT**
Sponsored by Wolseley Waterworks with co-sponsors Clow Canada, Trojan Industries, Pro-Line Fittings, Westlake Pipe & Fittings, and GF Urecon
Ballroom, Upper Level, Banff Park Lodge
Games & Prizes – Name Tag Required

THURSDAY - March 14, 2024

8:30 - 10:15 am **Registration** – Hotel Lobby

9:00 - 9:30 am **PRESENTATIONS:**

SESSION A **Why Isn't Spilled Water a Party Foul,**
Travis Smith, Kamstrup

SESSION B **Waste Residuals Management at Surface**
Water Treatment Plants, Fengqin Wang,
Alberta Environment and Protected Areas

SESSION C **Catch of the Day,** Nikki Unsworth, Regional
Municipality of Wood Buffalo and Dorte
Koster, Associated Environmental
Consultants

SESSION D **Wetland Wonderland: Taking the Waste**
Out of Water, Elizabeth Calvin and Julian
Botero-Artuso, MAGNA Engineering Services

9:30 - 10:15 am

SESSION A **Optimization in WWTP Lift Stations,**
Satish Padmashali, Regional Municipality of
Wood Buffalo

SESSION B **The Basics on Electrical Equipment Used by**
Operators and Maintenance - MCC,
Switchgear, VFDs, SoftStarts and Motors,
Cedric Rosario and Kevin Laviolette,
Carbon Controls Ltd

SESSION C **Leveraging the Cloud for Real-Time**
Operational Insights, Jeff Smith, Trimble
Inc, and Ali Mousavi, Cansel Survey
Equipment

SESSION D **The Advantages of Rare Earth Coagulation**
for Reducing Chemical Sludge Production
During Phosphorous Removal,
Kevin Bossy, Bishop Water

10:15 - 10:45 am **COFFEE - Alpine Meadows**

NOTES:

THURSDAY - March 14, 2024

10:45 - 11:15 am PRESENTATIONS:

SESSION A **IoT Remote Monitoring - Case Study,**
Nick Sawatzky, MPE, a division of Englobe

SESSION B **Coagulation Modelling at the Fort
McMurray Water Treatment Plant,**
John Michalopoulos, Regional Municipality
of Wood Buffalo, and Tyler Bennett,
Coagtech Ltd.

SESSION C **Town of Taber Stormwater Wetland
Project,** Ramin Lahiji, John Browning and
Brent Hamilton, Town of Taber

SESSION D **Managing FOGs in Wastewater Collection
and Treatment Systems with Biological
Products,** Ray Menard, ACC Water Solutions

11:15 - 12:00 pm

SESSION A **Controller for WW Pumping Stations that
Easily Adapts as Your Needs Change,**
Luc-Rejean Lepine, Xylem Canada LP

SESSION B **Increasing Availability and Reliability with
Onboard Diagnostics,** Mark McDowell and
Conor Henney, Endress+Hauser and Intrepid
Group Ltd.

SESSION C **How Lethbridge Got the Lead Out,**
Leanne Lammertsen, Luis Rauda and
Doug Winters, City of Lethbridge

SESSION D **When Your New Permit Requires Ammonia
& TN Removal, Consider MABR
Technology,** Bruce Stevens and Neri Nathan,
Fluence

12:00 - 1:30 pm **LUNCH**

NOTES:

THURSDAY - March 14, 2024

1:30 - 2:00 pm **PRESENTATIONS:**

SESSION A **Finding Challenging Water Leaks - Leaks that Don't Surface Where They are Leaking,** Brad Forsyth and Toby Weickert, The City of Calgary

SESSION B **Impact of Equipment Sizing on Plant Operations,** Max Wong, Capital H2O Solutions

SESSION C **Municipal Water Education for Behaviour Change,** Vanessa Higgins, Strathcona County

SESSION D **Bioaugmentation to Remove Sludge from Wastewater Lagoon in Northern Climate - A Case Study with Ontario Clean Water Agency at Bruce Mines Ontario,** Jonathan Lee, Acti-Zyme Products Ltd

2:00 - 2:45 pm

SESSION A **Mobile Mapping for Field Operations,** Andrew Wolff and Mark Wille, Strathcona County

SESSION B **Modern Disinfection Methods, with a Focus on Chlorine. Critical Do's and Don'ts,** Mark McDowell and Aarthie Fernando, Endress+Hauser and Intrepid Group Ltd.

SESSION C **Automate Your Subsurface Utility Engineering and Locate Sketching,** Ali Mousavi, Cansel Survey Equipment

SESSION D **Avoiding Pitfalls: Effectively Navigate Wastewater Lagoon Risks with a Robust Lagoon Management Strategy,** W.R. (Bill) MacMillan, Lethbridge County, and Andrew Ambrocichuk, Hydrasurvey Ltd.,

2:45 – 3:00 pm **COFFEE - Alpine Meadows**

NOTES:

THURSDAY - March 14, 2024

3:00 – 3:30 pm PRESENTATIONS:

SESSION A The Heartland of Alberta's Approach to Leak Detection, Javed Muki,
Pure Technologies, a Xylem Brand

SESSION B An Update on PFAS in Drinking Water,
Johnny Ke, Stantec Consulting Ltd

SESSION C CLOSED

SESSION D Modelling of the Aerobic Granular Sludge Process for a WWTP in Western Canada,
Julian Xheko, Stantec Consulting Ltd

3:30 – 4:00 pm

SESSION A Odour and Corrosion Control in Municipal Collection Systems, David Speed,
BioMaxx Environmental

SESSION B Unveiling the Science of Polymer Activation: Exploring the Benefits through Applications, Ethan Brooke, Cleanwater1

SESSION C CLOSED

SESSION D Alberta Environment and Protected Areas – Certification Q&A, Christine Donovan and
Tammy Elzinga, AEPA

6:00 pm RECEPTION - Alpine Meadows

7:00 pm Annual Banquet – Main Ballroom
Tickets Required

AWWOA - Past Chair Award

9:00 pm ENTERTAINMENT
Comedian – Pete Zedlacher



After the Seminar, an evaluation
will be emailed to you.

AWWOA values your feedback.

Your input will make the seminar
experience even better next year.

FRIDAY - March 15, 2024

MORNING WORKSHOP SESSION – Main Ballroom

8:30 - 11:30 am Effective Tough Conversations – The Key to High Performing Teams

This 3-hour workshop-style leadership presentation will focus on the Foundations of Successful Coaching Conversations for Operators. It will provide participants with better understanding and practical methods they can apply on the job immediately to build better relationships and get results from their management efforts.

Industry challenges being discussed include: Navigating regulatory changes, Knowledge transfer and retirement challenges, and Technology Advancements.

Presenters: Melanie Richmond and Rachelle Lee, Einblau & Associates

11:30 am CLOSING REMARKS
Chris Huston, AWWOA Chair

PAST AWARD RECIPIENTS

From last year's seminar award ceremony

**2022 GERALD SAMUEL OPERATOR
OF THE YEAR AWARD**

**Corey Hodgson
EPCOR**

2023 RON BAYNE SERVICE AWARD

**Tanya Hunter
Alberta Environment and Protected Areas**

**2022 STEVE BLONSKY HONORARY
LIFE MEMBERSHIP AWARD**

**Lorne (KC) Stone
and
Ed Spohr**

For a complete list of past award recipients visit
awwoa.ca/awards-scholarships

List of Exhibitors

Willow Room	AWWOA	64	Capital H2O Systems Inc
Pine Room	Silent Auction	65	Fabco Plastics Limited
Maple Room	Wajax Tundra	66 & 67	Klearwater Equip & Technologies
1	National Process Equipment Inc	68	NAIT
2	Aquateck West	69 & 70	Utility Supply (West) Corp.
3	Mueller Canada	71	Cambridge Brass
4	Elemental Bioremediation	72	Advance Diving
5	Evoqua Water Technologies	73	Norwood Waterworks
6	Nexom	74	infraStruct Products & Services
7 & 8	Mequipco Ltd	75	Ipex bu Aliaxis
9	Clear Water Controls	76	REED Manufacturing Co.
10	Alberta Wilbert Sales Ltd	77	AEC Industrial Solutions
11	W.R. Meadows of Western Canada	78	EnviroTrace
12	Magna Engineering Services	79	H2 Solutions Inc
13	Trojan Industries	80 & 81	Waste Go
14	McKay Water Works	82	KTI Limited
15	Hydrasurvey Ltd	83	Novamen Inc
16	Terminal City Iron Works	84	Benchmark Instru. & Analytical Services Inc
17	ClearTech Industries	85	ESG Filtration Ltd
18	Top Shot Concrete Inc	86	Hayward Flow Control
19	Cam-Trac Inspection Services Ltd	87	Allied Centrifuge Tech./ Indust. Dynamics
20	WJF Instrumentation	88	Element Materials
21	Lambourne Environmental	89	BettsM Controls Inc
22	Aerzen Canada Inc	90	DWG Process Supply Ltd
23	Metropolitan Pump Co. Ltd	91	Ramtech Environmental
24	Aqua Clear Environmental	92	Acti-Zyme Products Ltd
25	KPIC Maintenance Services	93	Pro-Line Fittings
26	Carbon Controls Ltd	94	Ford Meter Box
27	Wolseley Canada	95	John Brooks Company
28 & 29	Accu-Flo Meter Service	96	Vanko, Analytical & Instru. Specialists
30	Donison & Associates Ltd	97	Robar Industries Ltd
31	Victaulic	98	Spartan Controls
32	Superior Equipment Sales	99	IVIS Construction
33	Unified Alloys	100	Southern Rewind
34	Alberta Environment & Protected Areas	101	Sego Canada Inc
35 & 36	GF Urecon	102	Endress+Hauser Canada
37	ICONIX Waterworks	103	Denso North America
38	CD Nova Instruments Ltd	104	Westech Industrial Ltd
39	Chem International	105	Telematic Controls
40	Water First	106	CB Process Instr. & Controls
41	Movewater Inc	107	Taber Solids Control
42	Stormtec Water Management	108	Engineered Pipe Group
43	Integral High-Performance Coatings	109	Waste'n WaterTech Ltd
44	CARO Analytical Services	110	Hach Canada
45	Restocrete Inc	111 & 112	RIDGID
46 & 47	Zimco Instrumentation	113	Arndt Motor and Pump Service
48 & 49	North Fringe Industrial	114	Liberty Pumps
50	Pipetech Rentals	115	Fernco/S1E/Pipe Patch
51	True Depth Diving & Marine Services Inc	116	Clean Harbors
52	Seahorse Aquatic Vegetation Harvesting/ Truxor Canada	117	AWI (Anthratch Western)
53	ALS Canada Ltd	118 & 119	Chamco Indust.
54 & 55	Jadler Industries	120	Aquatech Canadian Water Services Inc
62 & 63	ACC Water Solutions	121 & 122	Xylem Canada
		123	Aquatech Diving & Marine Services Ltd

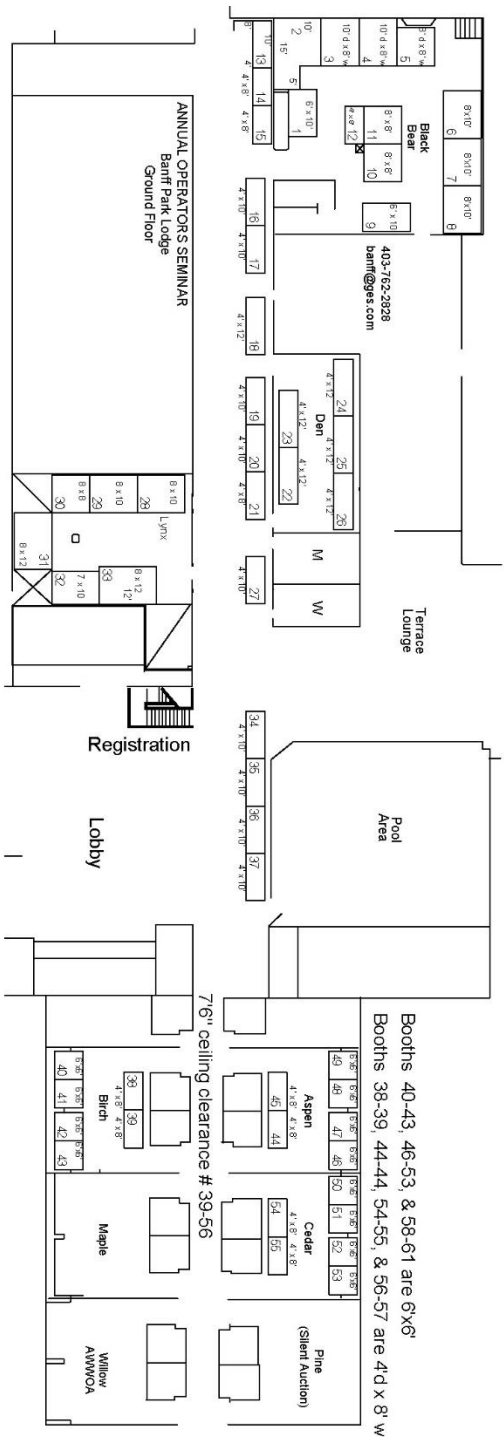
List of Exhibitors

- | | |
|---------------------------------------|--|
| 124 Aquatera Utilities | 137 Mountainview Systems |
| 125 N.S. Pawliuk & Son
Contracting | 138 Safesidewalks Canada |
| 126 EMCO Waterworks | 139 Camenex Control
Systems Ltd |
| 127 TDH Fluid Systems Inc | 140 Hetek Solutions Inc |
| 128 Metercor Inc | 141 Veolia Water
Technologies Canada |
| 129 Kamstrup | 142 BioMaxx Environmental |
| 130 Clow Canada | 143 Wachs Canada |
| 131 Delco Water | 144 Linestar Utility Supply |
| 132 Toray Membrane USA | 145 Procon Systems (2013) |
| 133 MPE, a division of Englobe | 146 & 147 CIMA+ |
| 134 Target Products | 148 & 149 Summit Valve and
Controls Inc |
| 135 ISL | |
| 136 Romac Industries | |

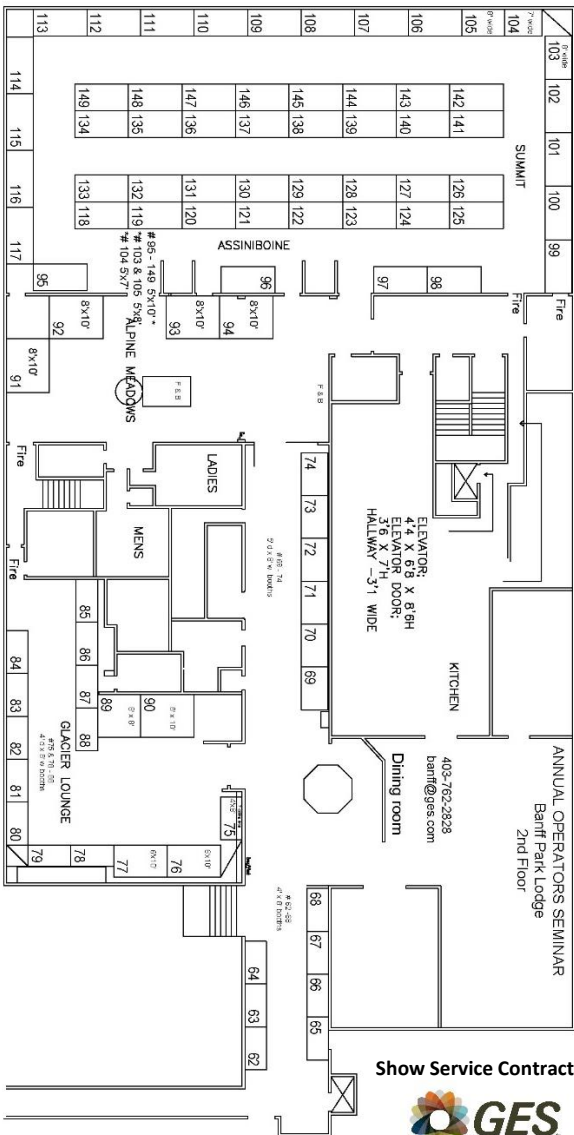
***The AWWOA wishes to thank all
of our sponsors for their
generous support!***

ACC Water Solutions Inc
AEC Industrial Solutions Ltd
Aquatech Canadian Water Services
Aquatech Diving & Marine Services
Aquateck West Ltd
Aquatera Utilities
ATAP
BettsM Controls
CIMA+
EPCOR
Iron Clad Mechanical Services Ltd
ISL
Kamstrup
Klearwater Equipment and Technologies
McElhanney
MPE, a division of Englobe
Pipetech Rentals
Ramtech Environmental Products
SEGO Canada Inc
Southern Rewind
Stantec
Taber Solids Control
The City of Calgary
TIL Environmental Solutions
Toray Membrane USA
Waste Go Canada
Wolseley Waterworks
W.R. Meadows of Western Canada

Banff Park Lodge Lower Level



Banff Park Lodge Upper Level



Show Service Contractor:



****NEW HOURS FOR 2024!****
Trade Show Display Times
Monday: 3:00 – 8:00 p.m.
Tuesday: 10:00 a.m. – 3:00 p.m.



ALBERTA WATER & WASTEWATER OPERATORS ASSOCIATION

49th Annual Operators Seminar

SPONSORED BY:



Fundraising Events

- Two **50/50** events, Monday and Tuesday. Tickets will be sold by the Charitable Donations Committee.
- **Silent Auction**, in the Pine Room on:
Monday: 3:00 - 8:00 p.m.
Tuesday: 10:00 a.m. to 4:00 p.m.

All funds raised are in support of
The Water School

Social Media

Alberta Water & Wastewater Operators Association

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