



**ALBERTA WATER & WASTEWATER
OPERATORS ASSOCIATION**

**44th Annual
Operators Seminar**

March 11 - 15, 2019

Banff Park Lodge, BANFF

ALBERTA WATER & WASTEWATER OPERATORS ASSOCIATION

2018 - 2019 EXECUTIVE

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AWWOA Staff

Dan Rites, Executive Director

Kirstin Mihaychuk, Program Coordinator

Jenna Horning, Membership Services

Erin Ciezki, Technical Program Coordinator

MONDAY - March 11, 2019

**Pre Seminar Workshops (Pre-Registration Required)
Rocky Mountain Resort, 1029 Banff Avenue**

Workshop #1 - 8:30 – 12:00 Noon (0.3 CEUs) Simplification of Lagoon Treatment and Sludge Management for of Contaminant Reduction

This workshop will highlight some key considerations to keep in mind when upgrading an aging lagoon, and will help operators understand how to choose simple and cost-effective solutions for increased capacity.

Presenters: Christine Gan and Mike Bossy, Bishop Water Technologies and Don Burgess, DWG Process Supply Ltd.

Workshop #2 - 8:30 – 12:00 Noon (0.3 CEUs) Source Water Protection – What can I do as a Manager or Operator?

This workshop will focus on Source Water Protection, (what it is? what it means?) including practical ideas about what we can do in our local watershed or Community to improve our resilience to changes from climate or development and better protect our source water, now and in future.

Presenters: Garry Drachenberg, Jeff Fetter, Kristen Anderson and Grant Dixon, Associated Engineering; Anuja Ramgoolam, Alberta Water Council

12:00 - 8:00 pm - Seminar Registration – BPL Hotel Lobby

Workshop #3 - 1:00 – 4:30 (0.3 CEUs) Intersections between Biology and Wastewater Treatment Processes

This workshop will explore the science of the several portions of the wastewater process in relation to determining the correct biological interventions to solve real world wastewater plant problems.

Presenter: Kevin “the Bugman” Ripp, Aquafix Inc.

Workshop #4 - 1:00 – 4:30 (0.3 CEUs) Operator Training, Awareness and Competency

Alberta OH&S Legislation outlines minimum training requirements for employers. Training, awareness and competency are essential in performing Due Diligence and a key component of striving towards “An Incident Free Workplace”.

Presenter: Shane Fuson, Fusion Safety Services

3:00 - 9:00 pm Trade Show Displays - Open for Viewing

Silent Auction - Pine Room

5:00 - 9:00 pm Trade Show Reception

TUESDAY - March 12, 2019

8:00 - 4:00 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)

Wastewater Lift Stations, Pumps & Controls... with Low Pressure Sewer Applications

This session will cover different types of wastewater pump systems, and their applications: Sewage grinders, solids handling pumps, effluent pumps, lift station design, controls, low pressure sewer hydraulics, and their applications.

Presenter: Steve Ritsema, Liberty Pumps

Workshop #6 - 8:30 – 12:00 (0.3 CEUs)

The Last Mile of Regionalization: Exploring the Potential of Small Diameter, Low Pressure Distribution Systems

Traditionally regionalization involves large diameter transmission lines. This workshop aims to provide an overview of the small diameter; low pressure system options.

Presenters: Aaron Janzen, AEP; Samantha Irwin, University of Calgary; Colin McNab, MPE Engineering; Geoff Tiffin, County of Newell; Floyd Provost, Piikani Nation; Chad Moore, AEP; Jaclyn Roulston, AEP

10:00 - 4:00 pm Trade Show Displays - Open for Viewing

10:00 - 5:00 pm Silent Auction - Pine Room

**12:00 - 1:30 pm Delegate Lunch - In Display Area
Sponsored by MPE Eng., MSSA and Perma-Pipe Canada**

5:15 - 6:00 pm Silent Auction Item Pickup - Pine Room

**7:00 - 10:00 pm YP SOCIAL EVENT - Sponsored by Algae Control Canada & Western Canada Water
Elk & Oarsman Pub, 119 Banff Avenue**



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.

WEDNESDAY - March 13, 2019

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

9:00 - 9:30 am **Official Opening** - Ballroom
Ed Spohr, Chair, AWWOA
Nancy McAteer, WCW

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 - 9:40 am **Alberta Environment and Parks**
Lyndon Gyurek, AEP

9:40 - 10:15 am **Alberta Environment Compliance Update**
Dean Litzenberger and Owen Cook, AEP

10:15- 10:30 am **COFFEE - Alpine Meadows**

10:30 - 11:15 am **Operator Certification Portal Update**
Sipo Ching, 365 Compliance and Vernice Bello, AEP.

11:15 – 11:30 am **Alberta Environment and Parks**
Lyndon Gyurek, AEP

11:30 - 12:00pm **The Water School Update**
Tony Woodruff, The Water School

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

1:30 - 2:45 pm **AWWOA ANNUAL GENERAL MEETING**
Summit Room
AWWOA - Three Door Prize Draws
Find the Hydrant Draw - Two Prizes

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

3:00 - 3:45 pm **PRESENTATIONS:**

SESSION A **Emergency Contact Details and Lab Forms for DWQ Electronic Reporting:** Kathleen Pongar, AEP

SESSION B **Municipal Lagoons – Wastewater into Revenue:** Peter Christou, Swirltex Inc.

SESSION C **Condition Assessment of the Airdrie Feedermain:** Justin Hebner, Pure Technologies Ltd.

SESSION D **Integrated Asset Management for Water/Wastewater Infrastructure:** Dr. Olugbenga Ibikunle, Stantec

WEDNESDAY - March 13, 2019

3:45 - 4:15 pm PRESENTATIONS:

SESSION A Water Resiliency from an Operator's Perspective - Slave Lake Raw Water Intake and Pumphouse, a 9-year Project: Jack Sarty, Town of Slave Lake and Melanie Richmond, Associated Engineering

SESSION B Treated for a Cleaner Future - A New Wastewater Treatment Plant for Greater Victoria, B.C.: Jacqueline Weston and Matt McCrank Capital Regional District

SESSION C Advanced Liquid Phase Odour Control and Monitoring: Justin Stewart, Evoqua Water Technologies LLC

SESSION D Flood Detection Systems: Wade Robichaud, ATS Traffic

4:15 - 4:45 pm

SESSION A How to Maintain a Resilient Water Source and What if You Lost It!: Lalith Liyanage, Stantec

SESSION B The BEAST™ Septage, FOG and Sludge Screening System: Alan Spratt, Enviro-Care

SESSION C So You Have a Main Break... Now What? An Emergency Repair from a Manufacturers Viewpoint: Dave Brewer, USC Utility Supply (West) Corp.

SESSION D Municipality of Crowsnest Pass - SCADA System Upgrade Case Study: Nick Sawatzky, MPE Engineering Ltd.

7:30 - 10:30 pm

CASINO NIGHT Sponsored by Wolseley
Main Ballroom, Banff Park Lodge
Games and Prizes
Name Tag is required for admission

THURSDAY - March 14, 2019

- 8:30 - 10:15 am** **Registration** – Hotel Lobby
- 9:00 - 9:30 am** **PRESENTATIONS:**
- SESSION A** **The Long Journey to UV Disinfection:** Mike Boyce, Aquatera and Rudy Chan, Associated Engineering
- SESSION B** **Foaming Control at the City of Lethbridge Wastewater Plant:** Duane Guzzi, City of Lethbridge
- SESSION C** **The Pains of Force Mains:** Wade Bell, Rocky View County
- SESSION D** **Mitigating I&I and Basement Flood Risk through Canada's Model Construction Codes:** Dan Sandink, Institute for Catastrophic Loss Reduction
- 9:30 - 10:15 am**
- SESSION A** **The Mayhem of Retrofits: Structural Repairs for an Old Reservoir:** Elizabeth DeVries and Hartmut Vogt, M2 Engineering and Rick Wall, City of Wetaskiwin
- SESSION B** **What To Do with Our Poo - Beast II:** Jennifer Besinger, County of Grande Prairie and Rhonda Hewko, Elkan Environmental Engineering
- SESSION C** **There's an Ultra Violet Light on this Train!:** Jamie Lienberger, Fjord Fusion - Cured in Place Liner
- SESSION D** **Training the New Guy; Worst Job Ever?:** Glen Ketchum, EPCOR
- 10:15 - 10:45 am** **COFFEE - Alpine Meadows**

THURSDAY - March 14, 2019

10:45 - 11:15 am PRESENTATIONS:

- SESSION A** **Dual Perspective (Engineer & Contractor): River Intake Structural Repairs:** Elizabeth DeVries, M2 Eng. and Devon Fedor, Alberco Construction
- SESSION B** **Saturation Salvation: Using the Saturation Index to Mitigate Struvite:** Nisa Jayathilake, City of Calgary
- SESSION C** **Remote Pressure Monitoring for the Water Distribution System:** Adam McCardle, Eramosa Engineering, Birk Madsen and Saad Jasim, City of White Rock
- SESSION D** **Developing an Integrated Asset Management System Improves the Risk-Based Decision –Making Process:** Shaikh Islam and Randy Russell, EPCOR

11:15 - 12:00 pm

- SESSION A** **Understanding Rejection: The Path to a Healthy Membrane Life:** Ken Robinson, Avista Technologies
- SESSION B** **Wastewater Pumping System with Integrated Intelligence:** Luc-Rejean Lepine, Xylem
- SESSION C** **In-line Work Without Shutdown:** Brandon Pater, Pacific Flow Control Ltd.
- SESSION D** **Capturing the Opportunities of Electronic Certification:** Sipo Ching, Compliance365 Inc.

12:00 - 1:30 pm LUNCH

THURSDAY - March 14, 2019

1:30 - 2:00 pm PRESENTATIONS:

SESSION A Application of Composites in the Repair & Rehabilitation of Piping in Treatment Plants: Bill Nobles and Korosh Najar, Indumar Products Inc.

SESSION B Brazeau County Case Study: Treating Lagoons with WasteGo: Darcy Mulroy, Brazeau County; Colin Brushett and Norm Grexton, Waste Go Canada

SESSION C Temporary and Modular Water Transfer Systems: Rana Elbittibssi, Xylem Inc.

SESSION D Odour Control - A behind the Scenes Look Into our Struggle to Smell Like Roses: Kenzie Harmsworth and Jody Penner, EPCOR - Gold Bar WWTP

2:00 - 2:45 pm

SESSION A On-Site Hypochlorite Generation: A Safe and Reliable Disinfection Alternative: Lashley Loomis, UGSI Solutions Inc.

SESSION B Top 8 issues facing wastewater facilities in treating high strength wastewater: Johnathan Lee, Acti-Zyme Products Ltd.

SESSION C Understanding Correlation and Leak Detection: David Senyk, Hetek Solutions Inc.

SESSION D Municipal Infrastructure Asset Management - Grassroots Fundamentals and Scientific Best Practice: Gordon Molnar, Pillar Systems Inc.

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

THURSDAY - March 14, 2019

- 3:00 – 3:30 pm PRESENTATIONS:**
- SESSION A Migrating to the Digital World of Instrumentation; Unlocking the Full Potential of Your Assets:** Dean Rudd - Endress + Hauser
- SESSION B WSER, EPEA, WQBELs and/or CWS-MWWE? An Operators Guide to Wastewater Regulations:** Dorte Koster, Associated Environmental Consultants Inc.
- SESSION C ARC-GIS Operator Style:** Michael Kurys and Brett Andrews, Strathcona County
- SESSION D A Solution to Sewage Receiving:** John Greathead and Darren McDonough, Operators
- 3:30 – 4:00 pm**
- SESSION A Things to Consider - Time to Replace or Upgrade to UV?:** Norm Ammerer, Atlantium Technologies
- SESSION B Modernizing Aging WWW Facilities:** Laurent Cataye, Rockwell Automation
- SESSION C Closed**
- SESSION D Which Pipe First? Using Evidence-Based Condition Assessment for Planning Watermain Renewal:** Alain Lalonde, Mueller, Echologics and Nimarta Gill, Region of Peel
- 6:00 pm RECEPTION - Alpine Meadows**
- 7:00 pm AWWOA Annual Banquet**
Tickets Required
AWWOA - Past Chair Award
- 9:00 pm ENTERTAINMENT**
Winner of Edmonton's Funniest New Comic and performer at the prestigious "Just for Laughs" gala – **Kevin Stobo**

FRIDAY - March 15, 2019

MORNING WORKSHOP SESSION – Main Ballroom

Attendance required for 0.3 CEUs

8:30 - 11:30 am Water for Life – Current and future water considerations for water and wastewater systems in Alberta: Join us for a presentation and discussion on Alberta's Water for Life Strategy. What are the three main goals and how will these goals be addressed.

Moderator: Kim Sturgess, WaterSMART Solutions Ltd.

Presenters: Dr. Ryan MacDonald, MacHydro/U of Lethbridge
Stephen Stanley, EPCOR
Mike Nemeth, WaterSMART Solutions Ltd.
Monica Emelko, University of Waterloo
Mark Bennett, BRBC / WPACs
Joel Nodelman, Nodelcorp Consulting

11:30 am CLOSING REMARKS
Paresh Dhariya, AWWOA Chair

PAST AWARD RECIPIENTS

From last year's seminar award ceremony

**2017 GERALD SAMUEL OPERATOR
OF THE YEAR AWARD**

Darren McDonough
Town of Fox Creek

2018 RON BAYNE SERVICE AWARD

Jim Hepler
Town of Devon

**2018 STEVE BLONSKY HONORARY
LIFE MEMBERSHIP AWARD**

Kathy Abramowski
Retired

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

List of Exhibitors

Willow	AWWOA		
Pine	Silent Auction		
Maple	BioMaxx Environmental		
1	Insituform Technologies	58	Robar Industries
2	Donison & Associates Ltd	59	EMCO Waterworks
3	ISCO-AH McElroy	60	Maxxam Analytics
4	Mueller Canada	61	Norwood Waterworks
5	Westech Industrial	62	Nexom
6	W.R. Meadows	63	Spartan Controls
7	Mequipco Ltd	64	IPEX Inc
8	Bay Industrial	65	DWG Process Supply Ltd
9	Clear Water Controls Inc	66	VWR International
10	Evoqua Water Tech	67	Galaxy Plastics
11	Alta-West Hydrant & Hottaping Service	68	WasteGo
12	Endress+Hauser Canada	69	Aqua Clear Environ.
13	Trojan Industries	70	CARO Analytical Services
14	McKay Water Works	71	Hetek Solutions Inc
15	DXP-Natpro	72	Reed Manufacturing Co.
16	Wolseley Water Works	73	Mountainview Systems
17	Cam-Trac Inspection Services Ltd	74	Mission Communications
18	Top Shot Concrete	75	Sensus Canada/KTI Ltd
19	ClearTech Industries	76	RIDGID
20	SRP Control Systems	77	Abloy Canada Inc
21	Lambourne Environmental	78 & 79	Martech Inc
22	Johnson Insurance	80	Hayward Gordon ULC
23	Western Tank & Lining	81	Ford Meter Box
24	Hydrasurvey Ltd	82	Pro-Line Fittings
25	Cubex Ltd	83	Xylem Water Solutions
26	Carbon Controls Ltd	84	John Brooks Company
27	GF-Urecon	85	AMHSA
28	Accu-Flo Meter Service	86	IVIS Construction Inc
29	Engineered Pump Systems	87	Kupferle Hydrants/ General Drain Cleaners
30	Victaulic	88	Canadian Dewatering
31	Kaizen Lab	89	Summit Valve & Controls
32	Superior Equipment Sales	90	Krohne Inc
33	Elemental Marketing & Remediation	91	Waste 'n Water Tech Ltd
34	Kayden Industries LP	92	Telematic Controls
35 & 36	Alberta Enviro. & Parks	93	KSB Pumps Inc (Canada)
37	WJF Instrumentation Ltd	94	CGI Instrumentation Inc
38	Corix Water Products	95	Fish Eye Underwater Inspections & Recovery
39	CB Process Instrument. & Controls	96	Metercor Inc
40	Livingstone Marketing	97	Frontier Supply
41	Safesidewalks Canada	98	ROMAC Industries
42	Tundra Process Solutions	99	AUTOSOL
43	CIMA Canada Inc	100	HACH Sales & Service LP
44	Image Inspection Services	101	Pure Technologies Ltd
45	Simark Controls Ltd	102	Denso North America
46	J.C. Industries	103	Liberty Pumps
47	Kamstrup Water Metering	104	Fernco/Source One Environmental
48	Calgary Sewer Scope Inc	105	Ramtech Environmental Products
49 & 50	North Fringe	106	AWI (Anthratch Western Inc)
51	FABCO Plastics	107	Acti-Zyme Products Ltd
52	Algae Control Canada	108	TDH Fluid Systems Inc
53	Capital H2O Systems	109	Carboline
54	Georg Fischer Piping Sys.	110	Target Products Ltd
55	Delco Water	111	EPG Engineered Pipe Grp
56	Klearwater Equipment & Technologies Corp.	112	Chamco Industries Ltd
57	NAIT	113	Wajax

List of Exhibitors

- | | |
|---|---|
| 114 N.S. Pawliuk & Son | 130 Camenex Control Systems |
| 115 KETEK Group | 131 USC Utility Supply (West) |
| 116 Pacific Flow Control Ltd | 132 Taber Solids Control Ltd |
| 117 Veolia Water Technologies | 133 Emerson |
| 118 Joe Johnson Equipment | 134 & 135 LineStar Utility Supply Alberta Inc |
| 119 Aquatera Utilities | 136 AWC Process Solutions |
| 120 EnReach Hot Tap Serv. | 137 MPE Engineering Ltd |
| 121 H2O Innovation | 138 Arndt Motor & Pump |
| 122 Cambridge Brass | 139 E.B. Horsman & Son |
| 123 Aquatech Diving and Marine Services Ltd | 140 WD Industrial Group |
| 124 United Rentals | 141 Intrepid Group |
| 125 Star Pipe Products | 142 Advance Diving Projects |
| 126 Revive Pipe Restoration | 143 Unified Alloys Ltd |
| 127 Wika Instruments | 144 Wachs Canada Ltd |
| 128 Eramosa Engineering | |
| 129 Hayward Flow Control | |

*The Alberta Water & Wastewater
Operators Association
wishes to thank*

Alberco Construction

Algae Control Canada

ALS Global

Aquatera

BioMaxx Environmental

EPCOR

Eramosa Engineering Inc.

Maxxam Analytics

MPE Engineering Ltd.

Municipal Service & Suppliers Association

Perma-Pipe

Stantec

Wolseley Waterworks

for their generous support!



ALBERTA WATER & WASTEWATER OPERATORS ASSOCIATION

44th 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 - 9:00 p.m.
Tuesday: 10:00 a.m. to 5:00 p.m.

All funds raised are in support of
The Water School

Social Media



Alberta Water & Wastewater Operators Association

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