



**ALBERTA WATER & WASTEWATER
OPERATORS ASSOCIATION**

**43rd Annual
Seminar**

March 12-16, 2018

Banff Park Lodge, BANFF

ALBERTA WATER & WASTEWATER OPERATORS ASSOCIATION

2017 - 2018 EXECUTIVE

Ryan Ropcean, Chair

Aquatera Utilities

Ed Spohr, Vice Chair

EPCOR Water Services

Bert J. Miller, Past Chair

City of Red Deer

Andy Bebbington

Town of Devon, WCW Representative

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County of Forty Mile No. 8

Darrin Wenzel

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Public Facilities Category

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Town of Didsbury

Mike Bureaud

EPCOR Water Services

Paresh Dhariya

Town of Devon

Ryan Moray

Town of Banff

AWWOA Staff

Dan Rites, Executive Director

Cathie Monson, Training Program Coordinator

Kirstin Mihaychuk, Member Services

Erin Ciezki, Technical Program Coordinator

MONDAY - March 12, 2018

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

Workshop #1 - 8:30 – 12:00 Noon (0.3 CEUs) 1000 Drive Solutions for the Water Industry

This workshop will discuss the relationship of variable frequency drives (VFDs) with water applications (pumps) and the efficiencies they bring. Included will be current stage drives, applications, what can be expected in the future and motor drive solutions from an overall system perspective.

Presenter: Rocky Multani, Spartan Controls Ltd.

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

In this workshop, the complete life cycle of phosphorous as it pertains to the water and wastewater industry will be discussed.

Presenter: Lalith Liyanage, Ph.D., P.Eng., Stantec

12:00 - 8:00 pm Registration - Hotel Lobby

Workshop #3 - 1:00 – 4:30 (0.3 CEUs) Modern Instrument Communications: The Future of Safety, Maintenance and Life Cycle Management

This workshop will introduce the types of new instrument communications utilized in the industry and their benefits. The future of instrument communications will be presented, providing an insight to current systems and how to prepare for the future.

Presenter: Dean Rudd, Endress+Hauser Canada

Workshop #4 - 1:00 – 4:30 (0.3 CEUs) Understanding Wastewater Biology

This workshop will delve into the biology of efficient wastewater treatment systems. Attendees will learn how to identify the causes behind common problems encountered by wastewater operators and be provided with biology-based cost saving solutions.

Presenter: Kevin Ripp, Aquafix Inc.

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 13, 2018

8:00 - 4:00 pm Registration - Hotel Lobby

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

Workshop #5 - 8:30 – 12:00 (0.3 CEUs)
New Technologies for Smart Water Plants

The goal of this workshop is to help operators get up to speed with the latest technology and advanced solutions used in the industry and discuss how they can help improve existing aging facilities one step at a time.

Presenter: Laurent Cataye, Rockwell Automation

Workshop #6 - 8:30 – 12:00 (0.3 CEUs)
Water Quality in the Distribution System

This presentation will provide an overview of water quality and operational modelling, including how the field has emerged, how they are built, and how and why they are being used today to help support operational and capital decisions by municipalities across Canada.

Presenter: Simon Horsley, Water Quality Lead, Stantec

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

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

YP Social Event **Sponsored by Algae Control Canada**
7:00 - 10:00 pm Elk & Oarsman Pub
119 Banff Avenue



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

The **AWWOA** values your input.

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

WEDNESDAY - March 14, 2018

- 8:30 - Noon** **REGISTRATION** – Hotel Lobby
- 9:00 - 9:30 am** **Official Opening** - Ballroom
Ryan Ropcean, Chair, AWWOA
- AWWOA Awards Presentation**
Membership Awards
Gerald Samuel, Operator of the Year
Ron Bayne, Service Award
Steve Blonsky, Life Member Award
AWWOA – NAIT Achievement Awards
- 9:30 - 10:00 am** **Alberta Environment and Parks Update**
Tanya Hunter and Lyndon Gyurek, AEP
- 10:00 - 10:15 pm** **The Water School Update**
Doug Thorson, AWWOA
- 10:15 - 10:30 am** **COFFEE** - Alpine Meadows
- 10:30 - 12:00pm** **Feature Presentation:**
The Water Brothers
Join us for this inspiring presentation from Canada’s own “Water Brothers”, Alex and Tyler Mifflin
- 12:00 - 1:30 pm** **LUNCH**
- 1:30 - 2:45 pm** **AWWOA ANNUAL GENERAL MEETING**
Summit Room
- AWWOA Door Prize Draws**
Three Major Prizes
Must be in attendance to win.
- Find the Hydrant Draw**
Two Prizes
- 2:45 - 3:00 pm** **COFFEE** – Alpine Meadows
- AFTERNOON SESSION “A” Castle Room**
Session Moderator – Bert Miller
- 3:00 - 3:45 pm** **Challenges and Options when Designing a Small Potable Water System using Surface Water or GUDI:**
Anita Gupta and Sean Marvin, John Brooks Company Ltd.
- 3:45 - 4:15 pm** **City of Red Deer Water Utility Safety – 20 Years No Lost Time:**
Colin Molsberry and Jarrett McAuley, City of Red Deer
- 4:15 - 4:45 pm** **The Edmonton Water Treatment Plant High River Level and Colour Event, the Effect on Water Production & Storage:** Darren Diprose, EPCOR

WEDNESDAY - March 14, 2018

AFTERNOON SESSION "B" Assiniboine Room

Session Moderator – Jim Hepler

- 3:00 – 3:45 pm** **Wastewater Screens: Selection Criteria and Real Life Experiences:** Elaine Connors, Jelcon Equipment
- 3:45 - 4:15 pm** **Bio-Solid Reduction and Management Case Study Analysis:** Jonathan Lee and Dave Rarog, Acti-Zyme Products Ltd.
- 4:15 – 4:45 pm** **Extend the Life of your Lagoon with BioCord Treatment and Geotube Sludge Management:** Don Burgess, DWG Process Supply Ltd.

AFTERNOON SESSION "C" Summit Room

Session Moderator – Lawrence Allen

- 3:00 – 3:45 pm** **Fundamentals of Pumping:** Stefan Fediw, John Brooks Company Ltd.
- 3:45 - 4:15 pm** **Point Repairs - A Necessary Tool in the Trenchless Toolbox:** Michael O'Toole, Fernco/Source One Environmental
- 4:15 – 4:45 pm** **The Benefits of Automatic Flushing:** John Palmer and Dale Robertson, Mueller Canada

AFTERNOON SESSION "D" Black Bear Room

Session Moderator – Melissa Pelletier

- 3:00 - 3:45 pm** **The City of Wetaskiwin's Journey to Compliance:** Sue Howard, City of Wetaskiwin and Kristen Schoendorfer, M2 Engineering
- 3:45 - 4:15 pm** **Keeping your Control System Secure:** Adam McCardle, Eramosa Engineering
- 4:15 - 4:45 pm** **Low Cost Monitoring and Alarm Functionality for Small Water Operations:** Gary Houston and Benjamin Feist, Remote Process Technologies/ West View Water Supply Ltd.

CASINO

7:30 - 10:30 pm

Sponsored by Wolseley

Main Ballroom, Banff Park Lodge
Games and Prizes

Name Tag is required for admission

THURSDAY - March 15, 2018

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

MORNING SESSION “A” Castle Room

Session Moderator – Frank Besinger

9:00 - 9:30 am **South Red Deer Regional Wastewater Pipeline Odour Management Strategy:** Pervez Sunderani, Alberta Environment and Parks

9:30 - 10:15 am **Selenium Removal and Operational Challenges:** Marco Braat and Rick Feng, EPCOR

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

10:45 - 11:15 am **Improved Plant Efficiency with Modern Instrument Communications:** Dean Rudd, Endress+Hauser

11:15 - 12:00 pm **You Found what in my Water?:** Blair Easton, ALS Environmental

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

MORNING SESSION “B” Assiniboine Room

Session Moderator – Bert Miller

9:00 - 9:30 am **The Making of “The Clog”; The Alberta Capital Region Wastewater Commission Residential Awareness Campaign:** Danielle Currie, ACRWC

9:30 - 10:15 am **Optimize Active Biomass Concentrations with Premium MBBR Carriers:** Ray Menard, Algae Control Canada

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

10:45 - 11:15 am **Town of Banff WWTP Aeration System Upgrades - Selecting Equipment to Provide Energy Savings:** Sarah Bruce, Associated Engineering

11:15 - 12:00 pm **Bio - Electrochemical Anaerobic Sewage Treatment (BEAST) Technology Offering Economical and Promising Results for Wastewater Systems:** Jennifer Besinger, County of Grande Prairie No. 1 and Rhonda Hewko, Elkan Environmental Engineering

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

THURSDAY - March 15, 2018

MORNING SESSION "C" Summit Room

Session Moderator – Lawrence Allen

- 9:00 - 9:30 am** **A Novel Test Method for Measurement of MIC in a Wastewater Collection System:** Justin Stewart, Evoqua Water Technologies LLC
- 9:30 - 10:15 am** **User Friendly Sanitary Pump Stations:** Suchit Kaila, Stantec Consulting Ltd.
- 10:15 - 10:45 am** **COFFEE -** Alpine Meadows
- 10:45 - 11:15 am** **Winning the War Against Wipes:** Tim Miller, JWC Environmental
- 11:15 - 12:00 pm** **Fish Creek Wastewater Treatment Plant - CIPP Lining Overcomes Difficult Circumstances:** Dave Machado and Tracey Anderson - Advanced Trenchless Inc. an Aquatera Company
- 12:00 - 1:30 pm** **LUNCH**

MORNING SESSION "D" Black Bear Room

Session Moderator – Rod Fraser

- 9:00 - 9:30 am** **The Benefits of Biological Additives in Wastewater Collection and Treatment:** Colin Brushett and Norm Grexton, Waste Go Canada
- 9:30 - 10:15 am** **Smart Infrastructure Means Superior Asset Management:** Rod Schnell and Gerry Popowich, Accu-Flo Meter Service
- 10:15 - 10:45 am** **COFFEE -** Alpine Meadows
- 10:45 - 11:15 am** **Control System Assessments - First Steps Towards Modernization:** Zane Spencer, MPE Engineering Ltd.
- 11:15 - 12:00 pm** **Smart Water Plant: How New Technologies are Shaping the Future of the Water Industry:** Laurent Cataye. Rockwell Automation
- 12:00 - 1:30 pm** **LUNCH**

THURSDAY - March 15, 2018

AFTERNOON SESSION "A" Castle Room

Session Moderator – Shazzadul Haq

- 1:30 - 2:00 pm** **Current and Future Challenges for Municipalities to Achieve their Final Effluent Limits:** Bradley Young and Chris Howorth, Veolia Water Technologies Canada Inc.
- 2:00 - 2:45 pm** **AEP Drinking Water Electronic Reporting Changes and Mandatory Contact Details:** Kathleen Pongar, Alberta Environment & Parks
- 2:45 – 3:00 pm** **COFFEE - Alpine Meadows**
- 3:00 – 3:30 pm** **Operational Challenges to Achieve Drinking Water Quality:** Abubakar Waraich and Grant Dixon, Associated Engineering Ltd.
- 3:30 – 4:00 pm** **Optimizing Complex Groundwater With (Almost) No Budget - A Case Study:** Neil MacDonald and Chad Moore, East Prairie Royale Homeowners Association and Aaron Janzen, Alberta Environment and Parks

AFTERNOON SESSION "B" Assiniboine Room

Session Moderator – Jim Hepler

- 1:30 - 2:00 pm** **Thermal Chemical Hydrolysis - Kenosha WR Case Study:** Jerod Swanson, Centrisys/CNP
- 2:00 – 2:45 pm** **EPCOR Regina Wastewater Plant Upgrade Project:** Shauna Karakochuk, EPCOR
- 2:45 – 3:00 pm** **COFFEE - Alpine Meadows**
- 3:00 – 3:30 pm** **Operations & Maintenance Considerations for Chemical, Biological & Activated Carbon Odour Control Systems:** Sean Trainor, Evoqua Water Technologies
- 3:30 – 4:00 pm** **Taber Industrial Lagoon and Effluent Irrigation System Upgrades:** Maintaining Lagoon Operation During Construction: Kyle Lohrenz and Zac Kostek, MPE Engineering Ltd.

THURSDAY - March 15, 2018

AFTERNOON SESSION "C" Castle Room

Session Moderator – Bert Miller

- 1:30 - 2:00 pm** **Role of Smart Tanks in Distribution Water Quality:** Gary Schaeffer - UGSI Solutions, Inc.
- 2:00 - 2:45 pm** **Patches and Tin Cans: The City of Calgary's in House Trenchless Sewer Pipe Rehabilitation Toolkit:** Frank Flaviano and Joanne Barrett, City of Calgary
- 2:45 – 3:00 pm** **COFFEE** - Alpine Meadows
- 3:00 – 3:30 pm** **Affordable Cellular AMI for Small Systems:** Michele Harvey, Badger Meter

AFTERNOON SESSION "D" Black Bear Room

Session Moderator – Rod Fraser

- 1:30 - 2:00 pm** **Eliminating Confined Space Entry in Air Release Valve Chambers - 10 Year Inspection and Review:** Derek Traquair, Martech Inc.
- 2:00 - 2:45 pm** **The Person, the Process, the Permit: A Dissection of Safety:** Curt Budden, EPCOR
- 2:45 – 3:00 pm** **COFFEE** - Alpine Meadows
- 3:00 – 3:30 pm** **Water Loss Audit and Validation:** Tammy Elzinga, Leduc County
- 3:30 – 4:00 pm** **AIR/VAC Release Valves:** Dave Brewer, Utility Supply (West) Corp.
- 6:00 pm** **RECEPTION** - Alpine Meadows
- 7:00 pm** **AWWOA Annual Banquet**
Tickets Required
- Past Chair Award
- 9:00 pm** **ENTERTAINMENT**
Comedian, winner of the 2007 Just for Laughs "Home Grown" competition and two-time Canadian Comedy Award Nominee. **Sean Lecomber**

FRIDAY - March 16, 2018

MORNING WORKSHOP SESSION - Assiniboine/Castle Room

Attendance required for 0.3 CEUs

Moderator – Ryan Ropcean, AWWOA

8:30 – 11:30 am **Emergency Impacts and Responses, from Spills to Floods to Thrills:**
This workshop will provide insight into three different emergencies and the impacts and responses from the utilities and stakeholders involved.
Presenters: Andy Busse, Jeff Da Silva, City of Price Albert; Juan Morales, Stantec; and Jarvis Singer, City of Calgary.

11:30 am **CLOSING REMARKS**
Ryan Ropcean, 2017 – 2018 Chair
Alberta Water & Wastewater Operators Association

PAST RECIPIENTS OF THE GERALD SAMUEL OPERATOR OF THE YEAR AWARD

1984	Steve Blonsky High Prairie	2001	Bob Einarson Rocky Mountain House
1985	Denis R. Gray Nanton	2002	Harold Lewis Vulcan
1986	Lyman "Sonny" Crowther Whitecourt	2003	Randy Reaman Red Deer
1987	Barry Parker Swan Hills	2004	Gordon Miller Rocky View Water Coop
1988	Burton Hingley Lomond	2005	Malcolm A. McKinnon Standard
1989	Albert Bourlon Valleyview	2006	Gordon Fournier Drumheller
1990	John Thoma Fairview	2007	Kerry Clark EPCOR Edmonton
1991	Guy Jette Fort McMurray	2008	Keith Straub High Level
1992	Ken Osepchuk Smoky Lake	2009	Randy Cyba Vegreville
1993	Ernie Formanek St. Paul	2010	John Girhiny EPCOR Edmonton
1994	Brent Applegate Wandering River	2011	Dwayne Cikaluk ACRWC
1995	John White Granum	2012	Doug Renwick Aquaterra
1996	Bob Quinn Calgary	2013	Steve Solic Taber
1997	Andy Maguire Edmonton	2014	Curtis Schultz Aquaterra
1998	Barry Brookes Red Deer	2015	John Zacharias MacKenzie County
1999	Bruce MacLennan Rosemary	2016	Curtis Remeika Strathcona County
2000	Karen Waldick Linden		

**PAST RECIPIENTS OF THE
RON BAYNE SERVICE AWARD**

1985	Gerald Samuel	2002	Kathy Abramowski
1986	Ron Bayne	2003	Mike Pelletier
1987	Herb Zinger	2004	Doug Thorson
1988	Ken Elstone	2005	Frank Wetsch
1989	Award not presented	2006	Garth Carl
1990	Del Morrison	2007	Terry Chapman
1991	Award not presented	2008	Carl McDonnell
1992	Louis Hedberg	2009	Glenda Donovan-Malik
1993	Steve Blonsky	2010	Kim Fath
1994	Dalton Stafford	2011	Award not presented
1995	Bob Vatcher	2012	Nancy McAteer
1996	R. Lynne Coulter	2013	K.C. Stone
1997	Bert Miller	2014	Allan Kendrick
1998	Ed Westerbeek	2015	Cathie Monson
1999	John Barrett	2016	Dwayne Cikaluk
2000	Andy Bebbington	2017	David Noack
2001	Harold Lewis		

**PAST RECIPIENTS
OF THE STEVE BLONSKY
HONORARY LIFE MEMBERSHIP**

2001	Steve Blonsky	2012	Andrew T. Maguire
2002	Herb Zinger	2013	Not Awarded
2007	Doug Thorson & Harold Lewis	2014	Del Morrison & Gerald Samuel
2008	John Barrett	2015	Not Awarded
2009	Norm Grexton	2016	John Thoma & Ron Freng
2010	Gerald Will	2017	Not Awarded
2011	Glenda Donovan-Malik		

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

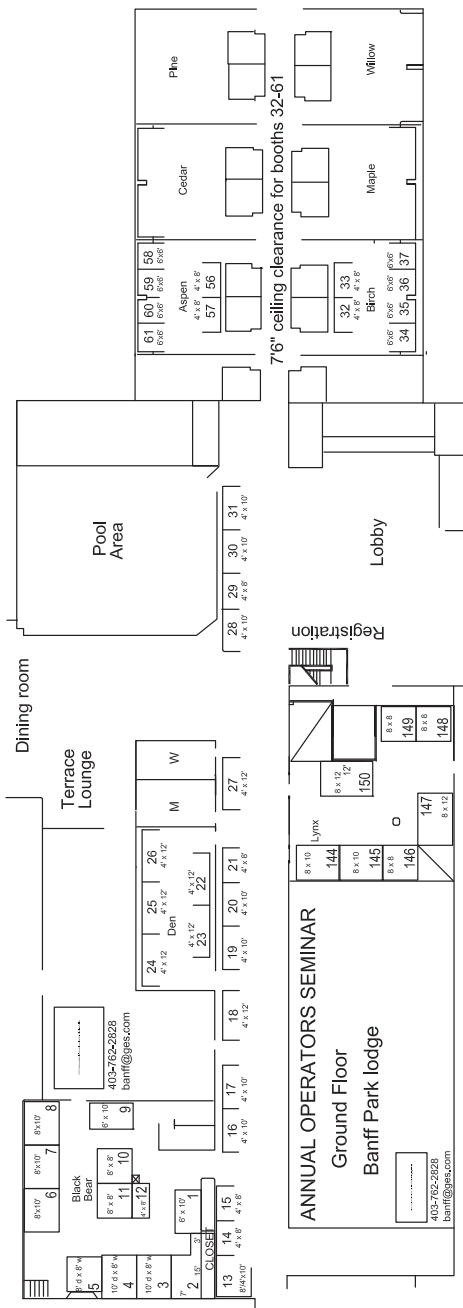
Algae Control Canada
Aquatera
Avensys Solutions
Biomaxx Wastewater Solutions Inc.
EPCOR
Eramosa Engineering Ltd.
MPE Engineering Ltd.
Municipal Service & Suppliers Association
Neptune Technology Group
Perma-Pipe
Rockwell Automation
Stantec
Wolseley Canada Waterworks

for their generous support

List of Displayers

Willow	AWWOA	84	Northern Lakes College
Pine	Silent Auction	85	StonCor Group
Maple	BioMaxx Environmental	86	Johlin Measurement
Cedar	New Line Trenchless Technologies	87	DWG Process Supply
1	Troy-Ontor Inc.	88	Hayward Gordon ULC
2	ATS Traffic Group	89	Ford Meter Box
3	A. H. McElroy Sales	90A	Pro-Line Fittings
4	Mueller Canada	90B	Xylem Inc.
5	Johnson Insurance	91	John Brooks Company
6	W.R. Meadows	92	General Wire / Kuperle
7	Mequipco Ltd.	93	E.P. Engineered Pump Systems
8	JWC Environmental	94	IVIS Inc.
9	Clear Water Controls	95	Summit Valve & Controls
10	Evoqua Water Tech	96	Target Products
11	Victaulic Company	97	Reed Manufacturing
12	Cubex Ltd.	98	Mission Communications
13	McKay Water Works	99	USC Utility Supply
14	Wolseley Canada	100	Hayward Flow Control
15	Kaizen LAB	101	Advance Diving Projects
16	Trojan Industries	102	Frontier Waterworks & Pump Supply
17	Cam-Trac Inspection	103	Brenntag Canada Inc.
18	Top Shot Concrete	104	AUTOSOL Canada
19	ClearTech Industries	105	Hach Sales & Services
20	Georg Fischer Urecon	106	Fish Eye Underwater Inspections & Recovery
21	SRP Control Systems	107	Wachs Canada
22	Alta-West Hydrant & Hottapping	108	Liberty Pumps
23	Simark Controls	109	Fernco/ Pipe Patch
24	Western Tank and Lining	110	RIDGID
25	Stowell Pumps	111	Anthratech Western
26	Carbon Controls	112	Cambridge Brass
27	Lambourne Environmental	113	ALS
28	Alberta Env & Parks	114	AVK Valves & Hydrants
29	DXP-Natpro	115	Acti-Zyme Products
30	WJF Instrumentation	116	Atek Water Systems
31	Corix Water Products	117	Chamco Industries
32	LineStar Utility Supply	118	Denso North America
33	Vivax-Metrotech	119	N.S. Pawliuk & Son
34 & 35	Algae Control Canada	120	TDH Fluid Systems
36	Engineered Pipe Group	121	Calgary Sewer Scope
37	Lafarge Canada	122	ROMAC Industries
56	Canada Colors & Chemicals	123	Safesidewalks Canada
57	J.C. Industries	124	CIMA Canada
58	Aqua Clear Environmental	125	Vanko Analytics Limited
59	FluksAqua	126	Enreach Hot Tap
60	North Fringe	127	Ramtech Environmental
61	North Fringe	128	Aquatech Diving Services
62	Fabco Plastics Western	129	Star Pipe Canada
63	Terminal City Iron Works	130	Aquatera Utilities
64	Capital H2O Systems	131	Donison & Associates
65	Georg Fischer Piping	132	United Rentals Pump
66	Klearwater Equipment & Technologies Corp	133	Sapphire Water
67	NAIT	134	Eramosa Engineering
68	EMCO Waterworks	135	Trident Processes
69	Spartan Controls	136	Metercor
70	Norwood Waterworks	137	Taber Solids Control
71A	Robar Industries	138	Hydrogeological Consultants (HCL)
71B	Nexom	139	Telematic Controls
72	IPEX Inc.	140	Waste 'n Water Tech
73	Canadian Leak Detection	141	MPE Engineering
74	Galaxy Plastics	142	Insituform Technologies
75	Abloy Canada	143	Pure Technologies
76	Clow Canada	144	Endress+Hauser Canada
77	Norm Grexton Inc.	145	Accu-Flo Meter Service
78	CARO Analytical Services	146	KB Technology (Flowpoint)
79	Arndt Motor and Pump	147	LN Land Developments
80	PinAcle Stainless Steel	148	Superior Equipment Sales
81	Mountainview Systems	149	SHAC/Elemental M.R.
82	Trenchless West	150	Kayden Industries
83	Veolia Water Tech		

Banff Park Lodge Lower Level





ALBERTA WATER & WASTEWATER OPERATORS ASSOCIATION

43rd Annual Operators Seminar

Sponsored by:



FUND RAISING 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 pm
Tuesday: 10:00 am to 5:00 pm.

All funds raised
support the Water School and
Water for People Canada