

THE PIPELINE

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SWWA

Saskatchewan Water
And Wastewater
Association

Editor:
Bob Turnbull
www.swwa.ca

SEPTEMBER 2010

4th Edition

THE OFFICE OF SWWA HAS MOVED TO OUR NEW ADDRESS:

6 Richmond Place South, Saskatoon SK S7K 1A3

Toll Free: 1-888-668-1278 Phone: 1-306-668-1278 Fax: 1-888-668-1279 E-mail: officeswwa@sasktel.net

Golf Tournament

This year the SWWA golf tournament was held in Swift Current. It started out with a seminar with 53 signing up. This year's seminar was Ground Water Investigations and Development Programs. The presenters were, Rob Sinclair from Environmental Services (KGS Group), David Trach from Water Mark Consulting Ltd., Roger MacDonald, Sean Bayer, Rob Sinclair, MR2(KGS Group) and Rod Broadfoot (M.O.E.).

The golf the next day went quite well except for a short rain delay of about forty minutes. The course was in very good condition even though you had to stop for the geese every once and a while. Glen Greve and his team were the eventual winners overall, but it seemed that everyone, even the Beer Cart Ladies had an excellent time. I have heard a rumor that next year Yorkton is the place.



Staff Changes

After many years of dedicated service to SWWA we say goodbye to Monique Will. Monique has been instrumental to the growth of our organization thus far and we appreciate the excellent skills she has brought to the SWWA office admin position. We wish her well and every success in her future endeavours.

We welcome Calle Behnke as our new office Admin staff member. Calle has considerable administration experience and will bring new ideas to help our organization continue to grow to meet the future. Calle will be experiencing our conference for the first time this fall; we will be counting on our members to make her feel at home and part of the organization.



SWWA Golf Tournament winners: (l-r) Reese Mansuy, Lyle Spetz; Glen Greve and Ryan Murasty



SWWA CONFERENCE & TRADE SHOW

NOVEMBER 3 - 5, 2010

Tuesday, Nov. 2

#	Day/Time	
	6:30 - 8:30 p.m.	Conference Registration
	7:00 p.m.	Exam Session
	7:00 p.m.	SWWA, OCB & MOE Stakeholders' Meeting

Wednesday, Nov. 3

#	Day/Time	Workshop/Session
	7:30 - 10:00 a.m.	Conference Registration
1 - TS	8:30 - 9:15 a.m.	Canada Wide Strategy for Management of Municipal Wastewater - Environment Canada & Ministry of Environment
2 - TS	8:30 - 9:15 a.m.	On Bringing Central Water to an Existing Town - Bullee Consulting Ltd.
3 - TS	8:30 - 9:15 a.m.	Transient and Surge Related Pipe Bursts, Water Loss and Damage Prevention - Singer Valve Inc.
	9:15 - 9:45 a.m.	Coffee
4 - TS	9:45 - 10:40 a.m.	The New Wastewater Strategy -The Analytical Perspective (unravelling the mystery) - ASL Laboratory Group
5 - TS	9:45 - 10:40 a.m.	Sequencing Batch Reactors - AWT Technologies Inc.
6 - TS	9:45 - 10:40 a.m.	Application of Process Instrumentation in Water/Wastewater Plants - Siemens AG
7 - TS	10:40 - 11:25 a.m.	Haloacetic Acids (HAA) & THM Formation Potential - Testing Methodology - Saskatchewan Research Council
8 - TS	10:40 - 11:25 a.m.	Wastewater Disinfection Methods - KGS Group
9 - TS	10:40 - 11:25 a.m.	Optimizing Nutrient Removal Through Instrumentation - Hach Sales & Service Canada Ltd.
	11:30 - 12:30	Lunch
1 WKSHP	12:30 - 4:00 p.m.	Fundamentals of Calibration and Certification of On-Line and Lab Instruments in Water & Wastewater - ClearTech
2 WKSHP	12:30 - 4:00 p.m.	SCADA Solutions Enhance Productivity of Water Utilities - Motorola Israel
3 WKSHP	12:30 - 4:00 p.m.	Industrial Electrical Safety for Non-Electric Workers - Magna Electric Corporation
	4:30 - 7:00 p.m.	Free Time (Supper on your own) & Trade Show Booths Open
	7:00 - 9:30 p.m.	Watering Hole Ice Breaker & Trade Show

Thursday, Nov. 4

#	Day/Time	Workshop/Session
	7:30 - 8:30 a.m.	Breakfast
AGM	8:30 - 9:30 a.m.	AGM - Open Meeting & Keynote Address: TBA
	8:30 - 12:00 p.m.	Trade Show - Coffee to be served amongst booths at 9:30 - 10:00
	12:00 - 1:00 p.m.	Lunch
4 WKSHP	1:00 - 4:30 p.m.	Regulations, Permits to Operate & Operator Certification - Ministry of Environment
5 WKSHP	1:00 - 4:30 p.m.	Saddles & Repair Clamps - Robar Industries, Ltd.
6 WKSHP	1:00 - 4:30 p.m.	Blower, Air Compressors and Dryers - Comairco Equipment
	6:00 - 6:30 p.m.	Cocktails
	6:30 - 10:00 p.m.	Banquet & Entertainment

Friday, Nov. 5

#	Day/Time	Workshop/Session
	8:00 - 9:00 a.m.	Breakfast
10 - TS	9:00 - 9:45 a.m.	Lagoon Optimization - Nelson Environmental
	9:45 - 10:15 a.m.	Coffee
11 - TS	10:15 - 11:00 a.m.	Is Your Drinking Water Safe? (Robotic Inspection/Cleaning) - Scantron Surveying
AGM	11:00 - 12:00 p.m.	Reconvene AGM/ Elections
	12:00 - 1:00 p.m.	Lunch - Final Draws & Closing Remarks



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CONFERENCE 2010 ABSTRACTS

TECHNICAL SESSIONS (TS)

TS #1 Canada Wide Strategy for Management of Municipal Wastewater: Effluent from wastewater systems represents one of the largest sources of pollution, by volume, in Canadian waters. Negative impacts to aquatic ecosystems and to Canadians from harmful substances in wastewater effluent have been documented domestically and internationally for over 20 years. In Canada, the management of wastewater effluent is subject to shared jurisdiction, which has led to inconsistent regulatory regimes and varying levels of treatment across the country.

Through various consultation processes, interested Canadian parties have consistently indicated the need for all levels of government to develop a harmonized approach to managing wastewater. In 2009 the Canadian Council of Ministers of the Environment (CCME) endorsed the Canada-wide Strategy for the Management of Municipal Wastewater Effluent (CCME Strategy). This strategy facilitates the development of a harmonized regulatory framework to manage wastewater effluent in Canada. To implement the CCME Strategy, the federal government committed to develop regulations under the Fisheries Act.

Environment Canada (EC) published proposed Wastewater Systems Effluent Regulations in Canada Gazette, Part I, on March 20, 2010. This was followed by a 60-day comment period. EC is currently in the process of finalizing the Wastewater Systems Effluent Regulations and continuing to work with provinces and territories. Presented by Amanda Lwanga-Thompson, E.I.T., Environment Canada; Thon Phommavong, P. Eng., Ministry of Environment.

TS #2 On Bringing Central Water to an Existing Town: The nearly 2,000 residents of the Town of Pilot Butte have been depending on the nearly 700 individual home wells for all their domestic and yard needs. Regulators concerns over potential ground water contamination and the Town's recognition of its potential for expansion led to discussions on a central water system. With federal and provincial cost-sharing funding becoming available in 2009 the Town became serious about central water and retained Bullee Consulting to lead them in that direction. The presentation will explain the funding, regulatory, aquifer factors, design and public relations aspects of the project and will indicate time lines for central water and distribution system installation and residential hook-up. Presented by Bill Bullee, P.Eng., Bullee Consulting Ltd.

TS #3 Transient and Surge Related Pipe Bursts, Water Loss and Damage Prevention: This paper will give an overview of transients or surges in a piping network and the resulting pipe bursts which are very common problems. Power or PLC failures, improper valve operation or pumps without adequate control valves cause rapid changes in liquid velocity in a pipeline. This velocity change – released as pressure – can destroy fittings, pipes, valves, instrumentation and pumps. Pressure waves travel the length of the pipeline from the offending device at constant speed until they meet a barrier where they are reflected and then strengthened by incoming waves. This causes transients or surges leading to “pipe burst” or equipment failure. Repair costs, possible litigation for third party damages, plus potentially significant cost of the lost water are extremely expensive. A variety of mitigating solutions that can significantly decrease a system's number and frequency of pipe bursts will be discussed, and a brief explanation of the applications and intricacies of the associated equipment will be outlined. Presented by Brad Clarke, Singer Valve Inc.

TS #4 The New Wastewater Strategy - The Analytical Perspective (unraveling the mystery): This session will examine the new testing requirements under the CCME Canada-wide Strategy for the Management of Municipal Wastewater Effluent. New tests that operators have not had to carry out in the past such as carbonaceous BOD and bioassays will be explained. Information will be provided to assist operators with proper sampling and handling techniques to ensure sample integrity is not compromised, followed by a discussion of what the results mean. Also to be discussed are the various reporting and data management options available and questions that all operators should be asking their lab. Presented by Annette Woodroffe, ALS Laboratory Group.

TS #5 Sequencing Batch Reactors (SBR): Activated sludge is the most widely used wastewater treatment process around the world. The process was originally developed as a Sequencing Batch Reactor (SBR) in Manchester, UK around 1914 using a “fill and draw”, ie. aerate, settle and discharge reactor. However, the continuous aeration tank-and clarifier system became more popular and widespread. Then, in the early 1980's when reliable technology was becoming more acceptable, eg. automatic PLC controls systems and valves, SBR's became popular once again. Today, they are recognized

continued on page 4

as suitable and cost effective treatment for municipal and industrial wastewater, with systems treating populations of 50 to over a million. This paper will discuss types of SBR, process description, operation, performance and equipment. Some examples of plants from small pre-fabricated units to large multi-level stacked systems will be shown. Presented by Nigel Slater, P.Eng., AWT Technologies Inc.

TS #6 Application of Process Instrumentation in Water/Wastewater Treatment Plants: operators and managers today face many challenges. For example – Greater urbanization, increased demand for drinking water and increased sewage flow; Regulatory mitigation of Combined Sewer Overflows and better storm water management; Acquiring data from and monitoring diverse locations; Aging of infrastructures; High cost to upgrade or replace existing infrastructure; Increasing energy costs. This paper discusses some innovative process control approaches/solutions, along with their benefits, limitations and recent trends that can address those issues, using mainly Canadian case studies and real life examples. Presented by Vijay Acharya, Siemens AG.

TS #7 Haloacetic Acids (HAA) & THM Formation Potential – Testing Methodology: The Guideline for Haloacetic Acids (HAA) was added to the “Guidelines for Canadian Drinking Water Quality” in 2008 and the Guideline for THM was lowered a few years ago. HAA and THM may be generated from the chlorination of water in drinking water supplies. HAA & THM Formation Potential tests provide valuable information to assess the formation potential of source waters and to evaluate the various processes used to optimize treatment systems before chlorination. The methodology and some typical experimental scenarios will be presented. Data from tests performed on several unnamed provincial water systems will be discussed. Presented by Dr. Wo Yuen, Saskatchewan Research Council.

TS #8 Wastewater Disinfection Methods: Under certain regulated circumstances, a municipality’s wastewater must be disinfected prior to discharge. There are a number of options to accomplish this, such as chlorination and ultra-violet radiation. This paper will explain the reasons for wastewater disinfection, will explain a number of disinfection options and will describe the disinfection method of choice. Presented by Tibor Takach, P.Eng., KGS Group.

TS #9 Optimizing Nutrient Removal Through Instrumentation: Proponents of Nutrient Removal indicated that on-line instrumentation is critical to operating & optimizing a nutrient removal system. However one must

research questions such as: what instrumentation provides best value; what will the information mean; and what measurements should be done in a lab. Unfortunately, research has revealed the lack of topical information with no centralized reference material. The goal of this paper is to introduce a reference guide to assist in making instrumentation decisions. It will make recommendations of on-line instrumentation and lab testing to monitor and optimize nutrient removal facilities from the “Minimum Category”, to “Medium Transparency” and “Maximum Performance Category”. The information is based on four different nutrient removal processes (Modified Ludzak-Ettinger, Four/Five Stage Bardenpho & Three Stage Phoredox). Presented by Duncan Hoyle and Bob Dabkowski, Hach Company

TS #10 Lagoon Optimization Wastewater facultative lagoons can be an effective way of treating municipal wastewater. This paper will discuss methods an operator can use to get the best performance from his/her community lagoon system. Presented by Martin Hildebrand, P.Eng., Nelson Environmental.

TS #11 Is Your Drinking Water Safe? Water treatment strives to ensure that drinking water is always clean and free of contaminants to ensure proper health and wellness. Routine inspection of drinking water facilities is critical to determine the levels of sediment and by-product that may exist, especially in settling basins, quiescent zones and reservoirs as a result of the treatment process. It is also crucial for the operator to realize the structural integrity of the water reservoir. This paper will outline actions that an operator can take to effectively recognize problems with the potable water tank. In addition, this paper explains how on-line robotic inspection and cleaning of potable water tanks assist in maintaining drinking water systems and drinking water quality, and how a real time video recording of the process can assure the cleaning was performed to the owner’s satisfaction. Presented by Trevor Klock, Scantron Robotics Inc.



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WORKSHOPS (WS)

WS #1 Fundamentals of Calibration and Certification of On Line and Lab Instruments in Water & Wastewater: This workshop will give an overview of the theory of operation of water analysis instrumentation. It will give a review of calibration and certification practices and will explain best practices for calibration and certification. Finally, calibration procedures for on line and lab instruments will be explained. Presented by Andre Lemoine, ClearTech.

WS #2 SCADA Solutions Enhance Productivity of Water Utilities: Efficient monitoring of even a well-developed water distribution network with good operating practices has long been a challenge for management. Improper system management might result in problems such as, increased costs, insufficient water, inconvenience, unsatisfied customers, and excessive or misuse of water and more. To minimize these problems water utilities must improve their system operation based on real time data communicated to a control center. Supervisory Control and Data Acquisition (SCADA) solutions as an integrated part of utility-wide water management program may significantly improve the system effectiveness. Key workshop topics include: REMOTE PLANT MONITORING AND CONTROL; MONITORING PUMP CONDITIONS AND PERFORMING OPERATION SEQUENCES; FLOW MONITORING; RESIDENTIAL AUTOMATED METER READING (AMR); MONITORING WATER SUPPLY ASSETS; IMPLEMENTING A SCADA CONTROL CENTER; DESIGN AND IMPLEMENTATION OF A SECURE SCADA-DATA COMMUNICATION SYSTEM, including REMOTE TERMINAL UNITS, PROGRAMMABLE LOGIC CONTROLLERS AND INTELLIGENT ELECTRONIC DEVICES. Participants will obtain the basic knowledge to specify the SCADA requirements for their utility. All will be offered the opportunity to consult with the presenter via email with questions regarding SCADA solutions for their utility. Presented by Dan Ehrenreich, Motorola Israel Ltd.

WS #3 Industrial Electrical Safety for Non-Electrical Workers: 79% of electrical-related workplace fatalities in the past decade have involved non-electrical workers. This workshop will help operators understand electrical hazards, assess their risk and control exposure to hazards. It will explain basic electrical theory, help to understand electrical codes, standards and hazards, and include effects of electricity on the human body. Potentially hazardous electrical tools, equipment and locations will be explained so one can identify dangerous situations. Safe work practices, electrical emergencies, rescue, and role of first aid will be discussed. Presented by Magna Electric Corporation.

WS #4 Regulations, Permits to Operate & Operator Certification: Saskatchewan is adopting a new, results-based model for environmental regulation that will improve protection of the

environment, while promoting innovative new tools in environmental management. The current regulatory regime was developed in the early to mid-1970's and consisted almost entirely of prescriptive legislation and regulations that directed agency inspections and enforcement when contraventions were identified.

The Ministry of Environment (MOE) regulates drinking water and wastewater at nearly all of Saskatchewan's villages, towns and cities. To accomplish efficient and safe regulation of water and sewer, MOE's Environmental Protection and Audit Division contains the Municipal Branch which has two main sections: the Environmental Protection Services Section that reviews plans and projects to issue one-time Permits to Construct, and the Environmental Services Section which issues ongoing Permits to Operate water and sewer works.

In the area of operator certification there has been a request by the federal government for an Agreement in Trade within the Labour Mobility Act. The Canadian Water and Wastewater Operator Certification Committee has been working with the Association of Boards of Certification to develop the Canadian Best Practices which will form the basis for reciprocity between the provinces and territories. These practices will be outlined and changes addressed within this presentation. Present requirements will also be discussed. The presentation will explain organization, legislation, permitting requirements, guidelines and timelines for the regulation of construction and operation and certification of drinking water works and wastewater works in the province of Saskatchewan. Presented by Frank Reid, P.Eng., Gary Papic and Rod Broadfoot, Ministry of Environment.

WS #5 Couplings, Service Saddles, Tapping Sleeves (Wet & Dry) and Repair Clamps: This workshop will explain the different types of such devices; where, why and how they are used in a distribution and collection system. It will discuss their components, what they are made of; the types, sizes of pipes and the material the pipes are made of on which they are used; and how to install, pressure test and back-fill, once the devices are correctly installed. The slide presentation will be supported a variety of examples of these devices. Presented by Dave Brewer, Robar Industries Ltd.

WS #6 Blowers, Air Compressors and Air Dryers: This workshop will explain the differences between blowers and air compressors and where each can be used to best advantage. It will explain types of blowers and compressors describing particular applications, limitations and benefits. Also explained will be preventative maintenance and troubleshooting for modern blowers, compressors and dryers. A comparison will be made between using Original Manufacturer Equipment (OME) vs. Aftermarket Equipment. The purpose of air drying, either via a desiccant or a refrigerant will be explained as each may pertain to a particular air use in a facility. Presented by Mike Gregorash, Comairco Equipment.

WHO I AM

RON BABYCK

I am a water technologist employed by SaskWater at Cochin Sask. I hold Class 2 certification in WT, WD, WWC, and Class 1 in WWT. I began my water treatment (public works) career in the Town of Sturgis then moved on to the Town of Colonsay. I continued up the population ladder with a move to Wadena as a superintendent. In July of 2009 I was offered and accepted a position with SaskWater as a water treatment plant operator. I very much enjoy this new position, as well as the challenge I have taken on to become a certified R.O operator. I have a wonderful wife of 26 years, 3 great children and 4 beautiful granddaughters (I may be biased). My wife and I have been foster parents for approx. 20 years and also have a great foster daughter which has been with us for 16 years. I have been a member of the SWWA for approx. 12 years and joined the board in 2008 and have found the experience to be very interesting. At present I am the workshop chairman so feel free to contact me if there is a workshop you would like to see provided.

OPERATOR OF THE YEAR NOMINATION INFORMATION

PURPOSE OF THE AWARD...

Established by the SWWA executive in 1988 to recognize excellence as a water and/or wastewater operator. Two awards will be presented annually: one for populations of 1,000 or less, the other for populations exceeding 1,000.

NOMINATIONS...

Nominations can be made by: Mayors, Aldermen, Administrators, City/Town Engineers, City/Town Superintendents or Foremen, fellow employees. The nominator will be required to submit written documentation to the selection committee as soon as possible. Deadline is October 15 of each year.

ELIGIBILITY...

The nominee must be a member of SWWA and must be certified by the Operator Certification Board. The nominee can be full or part time operator employed by a municipality or industrial water/wastewater utility.

AWARD PRESENTATION...

The Dale Heshka (over 1,000 population)
and the Dave Clark
(less than 1,000 population)

Operator of the Year Awards
will be presented at the annual
SWWA Conference.



ATTENTION:

Suppliers wishing to attend the 2010 Conference as a delegate

This message is for those suppliers that would like to attend the full conference as a delegate instead of showcasing at the trade show.

Visit the Saskatchewan Water and Wastewater Association website to download a

“Supplier Without A Booth” Conference Registration Form.

www.swwa.ca

Operator of the Year Nomination Form

I wish to nominate:

Operator's Name: _____
Community employed at: _____
Operator's telephone number: _____
Years of service: _____
SWWA member since: _____

Nominator's Name _____
Nominator's Title _____
Telephone number _____
E-mail address _____

CRITERIA Judging will be handled by a committee selected by the SWWA Executive using the following categories for selection. Remember each category can refer to a Water or Wastewater Operator.

1. General Operations (Understands complete operation of the system and equipment.)

10	9	8	7	6	5
Exceptional		Above average			Average

Comments: _____

2. Aesthetic Quality of Finished Product. (Consistently producing the best possible quality of water the water/wastewater plant allows.)

10	9	8	7	6	5
Exceptional		Above average			Average

Comments: _____

3. Adherence to Legislative Requirement (Water samples tested regularly, meets min/max requirements of water quality guidelines.)

10	9	8	7	6	5
Exceptional		Above average			Average

Comments: _____

4. Water/Wastewater Records (Records kept up to date, such as inventory, maintenance, operation logs, lab results, etc.)

10	9	8	7	6	5
Exceptional		Above average			Average

Comments: _____

5. Preventative Maintenance Schedules (Maintenance performed when scheduled, reviewed and revised annually to meet changing requirements.)

10	9	8	7	6	5
Exceptional		Above average			Average

Comments: _____

6. That "Extra Mile Service to the Community (Willing to work "above and beyond the call of duty")

10	9	8	7	6	5
Exceptional		Above average			Average

Comments: _____

To help the SWWA Selection Committee further to judge each nominee please state any pertinent information that you feel the nominee deserves recognition for, such as innovations or cost saving measures used within the operation, any community involvement, volunteer work, etc.

For SWWA Office Use Only:	
Operator of the year Award for the category of (+/- 1,000)	
OCB Certified	

Fax or mail this form to the SWWA Office:

Fax Number: 1-888-668-1279

Mailing Address: 6 Richmond Place South, Saskatoon SK S7K 1A3

SWWA Conference 2010, November 3 & 4 at TCU Place and November 5 at the Hilton Garden Inn
Saskatoon, Saskatchewan

Type of Member: (Check one)

Regular:
A VOTING member of the SWWA and is an employee involved in the O & M of water and/or wastewater systems within Saskatchewan.

Agency:
A NON-VOTING member of the SWWA and is not employed in the O & M of water and/or wastewater systems, but has an interest in this field.

Name:	Employer:
Mailing Address:	Position:
City:	Phone (work):
Postal Code:	Fax:
	Phone (home):

Conference Registration will be open:

Tuesday, November 2 in the Prince Albert Room of the Hilton Garden Inn from 6:30 pm – 8:30 pm
Wednesday, November 3 at TCU Place from 7:30 am – 10:00 am

**Regular and Agency Member Conference Package:
All days, all meals, 2011 SWWA Membership, Trade Show & Banquet.
All conference information sessions and workshops.**

FAXED REGISTRATIONS ARE NOT ACCEPTED

	Fee	5% GST R12409515 9	TOTAL	Amount Paid
Early Bird Conference Package For registrations & payments postmarked by October 1, 2010	<input type="checkbox"/> \$332.04	\$16.60	\$348.64	_____
Conference Package For registrations & payments postmarked after October 1, 2010	<input type="checkbox"/> \$482.04	\$24.10	\$506.14	_____
Additional Options for Conference Delegates:				
<u>Extra</u> Banquet Ticket (per extra ticket)	<input type="checkbox"/> \$42.86	\$2.14	\$45.00	_____
<u>Extra</u> Meal Package (banquet ticket <u>not</u> included)	<input type="checkbox"/> \$106.65	\$5.33	\$111.98	_____
<u>Extra</u> Meal Package (banquet ticket included)	<input type="checkbox"/> \$153.27	\$7.66	\$160.93	_____
Spousal Program (Maximum Number 45) Name of attendee:	<input type="checkbox"/> \$40.00	\$2.00	\$42.00	_____
			TOTAL	_____

2011 SWWA MEMBERSHIP

If you **are not attending** the conference, but would like to obtain a 2011 Membership please complete the top of this form and submit with payment

\$40.00 plus \$2.00 GST Total \$42.00

Cheques are to be made payable to: Saskatchewan Water and Wastewater Association.

6 Richmond Place South, Saskatoon, SK S7K 1A3

A limited number "conference rate" rooms are available until October 1.
Hilton Garden Inn, 90 22nd Street East, Saskatoon – Phone: (306) 244-2311
Park Town Hotel, 924 Spadina Crescent East, Saskatoon – Phone: (306) 244-5564

Conference Exam Session - Tuesday, November 2, 2010

Sign In Time: 6:30 p.m.

Exam Time: 7:00 p.m. – 10:00 p.m.

**Location: Estevan Room - Hilton Garden Inn, 90 22nd Street East, Saskatoon
(Maximum 50)**

Name: _____

Mailing
Address: _____

Postal Code: _____

Employer: _____

Phone: _____ Fax: _____

Select **one** of the following:

Category and Class Chosen

Small Water System;

Small Wastewater System;

Water Treatment - 1, 2, 3, 4;

Water Distribution - 1, 2, 3, 4;

Wastewater Treatment - 1, 2, 3, 4;

Wastewater Collection - 1, 2, 3, 4

Exam Cost: \$75.00 plus 5% GST \$3.75 (gst # R124095159) = \$78.75

October 1 is the deadline for the exam registration and payment to be received at the SWWA Office.

Amount Enclosed: _____

Your receipt is your registration; bring it and a form of ID to the Exam Session.

Send Your Application and Fee to:

**SWWA
6 Richmond Place South
Saskatoon, Sk.
S7K 1A3**

SWWA BOARD OF DIRECTORS NOMINATIONS

Nominations are now being accepted for the upcoming Board of Director elections at this year's annual conference. A Regular member in good standing is eligible to be considered for appointment to any committee, and to aspire to any office of the association. Regular members are employees involved in the operation or maintenance of water and wastewater systems located in Saskatchewan.

Each Director shall hold office for a minimum term of one year. The Board of Director meetings are normally held on Fridays or Saturdays in Saskatoon an average of six times a year. Your association is as strong as the dedication put into it by the members. PLEASE VOLUNTEER. If you are interested in letting your name stand for nomination to the board, please submit your name to:

Calle Behnke, SWWA Office Manager
by email: officeswwa@sasktel.net
or fax: (306) 668-1279
or Toll Free: (866) 668-1279.

WHO I AM RYNETTE MOORE-GUILLAUME

I'm Rynette Moore-Guillaume and I have been a Director with the SWWA board since 2004. I'm employed at SaskWater as the Manager of Special Services in Operations and Engineering. Prior to SaskWater, I worked with City of Moose Jaw managing Water and Wastewater, Sanitation and Streets and Roads. I have also taught certification classes at SIAST for the Water and Wastewater extension program since 2002. I am certified both as a Level 4 Water Distribution and Wastewater Collection Operator. I will be graduating this fall with my Masters in Business Leadership. My education also includes a degree in Environmental Engineering and a Civil Engineering Diploma. I've volunteered for many different water projects- including drilling a water-well in Guatemala, putting in two water systems in Costa Rica and helping with Hurricane Rita for three weeks doing damage assessment. These opportunities have been a huge eye opener of how fortunate we are in Saskatchewan. I have thoroughly enjoyed being on the SWWA board. It has given me great opportunities of meeting operators and suppliers within the Water and Wastewater field. I'm interested in any feedback or suggestions you may have on how to make our organization even stronger as we continue to grow. Thank you for your support over the last six years.



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RICHARD B. JOHNSON
Sales Manager

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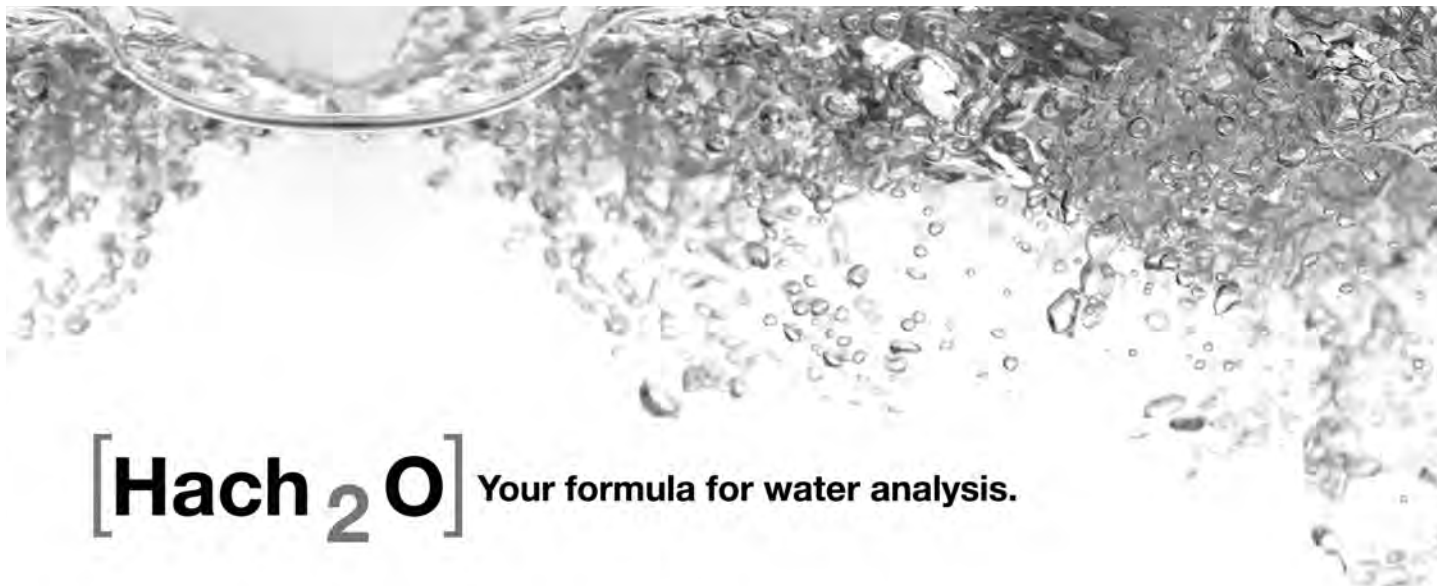
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Randy Hanson
Regional Sales Manager

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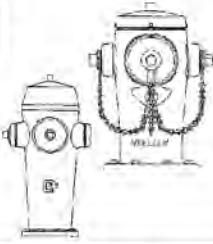


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A "Thank You" to our Workshop Hosts & Instructors 2010

SWWA extends a sincere thanks to the community staff who acted as Workshop Hosts for our workshops earlier this year. These Hosts assisted the SWWA training program by organizing the workshop facilities, assisting the workshop presenters with registration, introductions, distributing student materials and organizing coffee and lunch breaks. In return, Hosts attended the workshop at no cost and earned the workshop's CEU. Thanks are also extended to the Hosting Communities and Hosting Agencies for allowing their staff to become involved in the workshops. In a number of instances communities offered to fund a meeting facility (Unity, Prince Albert, Weyburn and Saskatoon), coffee breaks (Outlook, Swift Current, Saskatoon, North Battleford, Unity and Weyburn), or even lunch (Unity). Such community cooperation assists SWWA in keeping workshop costs as low as possible, whereby everyone benefits.

Your Hosts

Workshops are listed in alphabetical order indicating the hosting community or agency and then show the workshop hosts.

Chemical Solution Feed Pumps, Unity: Randy Antoniuk
Developing Plant Operations Manuals and Procedures, Prince Albert: Roberta Sinclair
Drinking Water Reservoir – Design Operation & Maintenance, Saskatoon: Susan Dobrowney
Electro-fusion – High Density Polyethylene (HDPE) Pipe, Sandale Utility Products, Saskatoon: Cory McMahon
Ground Water Issues in Saskatchewan, Swift Current: Tim Cox
Lift Station Operation & Maintenance, ITT Water & Wastewater, Saskatoon: Craig Erhardt
Hydrant Operation & Maintenance, Yorkton: James Kluk & Brian Stanick
Hydrant Operation & Maintenance, North Battleford: Colin Carriere and Rod Honch



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Municipal Wastewater Piping System Maintenance, Outlook: Calvin Clark
Municipal Wastewater Piping System Maintenance, Weyburn: Tom Williams
Valves, Meters & Piping Attachments, Humboldt: Kevin Bergen
Valves Meters & Piping Attachments, Moose Jaw: Staci Dobrescu

Your Instructors

A big "Thank You" is extended to all of our workshop instructors for their efforts in transferring their knowledge and skills to the operators in attendance. Most of the instructors, made their presentations courtesy of their firms/agencies; SWWA is most appreciative of this dedication. Other workshops, as noted, were presented under contract.

Chemical Solution Feed Pumps: Kelly Franks, ClearTech
Developing Plant Operations Manuals and Procedures: Rick Hanson, Optimize Consulting (under contract)
Drinking Water Reservoir – Design Operation & Maintenance: Bob Hawboldt, P.Eng., Associated Engineering, & Andrew Stevenson, ATAP Infrastructure Management
Electro-fusion – High Density Polyethylene (HDPE) Pipe: Ted Davies & Jason Santha, Sandale Utility Products (under contract)
Ground Water Issues in Saskatchewan: Rob Sinclair, P.Eng., KGS Group; Rodger McDonald, P.Eng. & Sean Bayer, P.Eng., KGS-MR2 Consulting Engineers; David Tratch, P.Eng., WaterMark Consulting
Lift Station Operation & Maintenance: Nabeegh Subhani, P.Eng., Don Ball, Lee Mitchell & Francois Gelineault, ITT Water & Wastewater (under contract)
Hydrant Operation & Maintenance: Don Webb, Mueller Canada
Municipal Wastewater Piping System Maintenance: Dennis Radlinski, Greg Yellowlees, Ridge Tool Company; Aaron Erickson, Kevin Dyck & Mike Volkmar, Mueller Flow Control
Valves, Meters & Piping Attachments: Aaron Erickson & Kevin Dyck, Mueller Flow Control; Jack Agzarian, P.Eng., Neptune Meters; Danny Bourgeois, Tyco/Keystone Valves & Automation; Lorne Davidson, Cla-Val Canada; and Adam Dunn, Robar Industries.



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- Nov. 29-Dec. 3 Class II Wastewater Treatment & Wastewater Collection

Workshops

- Oct. 13 Confined Space Entry (0.6 CEU's)
- Oct. 14 WHMIS and Safety (0.6 CEU's)
(formerly called "Safety for Water & Wastewater Workers")
- Oct. 20 Filter Surveillance and Optimization (0.6 CEU's)
(formerly called "Filter Maintenance and Surveillance")
- Oct. 21 Iron and Manganese Removal (0.6 CEU's)
- Nov. 17 Potable Water Reservoir Design,
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- Nov. 18 Membrane Filtration NEW! (CEU's to be determined)

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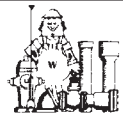
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Call for Workshops 2011 Papers

SWWA is planning the 2011 Spring Training Season and is requesting any person or supplier who is interested in presenting a one day or partial-day workshop to contact the Training Coordinator. Full day workshops must be between five and seven hours in length, not including lunch and breaks. Partial-day workshops must be three or four hours in length with a three hour minimum not including breaks or lunch; lunch may be served if desired. Workshop topics must be related to or an enhancement for water

treatment, distribution, wastewater treatment and collection. To be considered by the Executive for inclusion in the training program, please submit a proposal to the Training Coordinator. The proposal must include a workshop abstract, a proposed agenda, method of instruction, speaker biography, a copy of any training aids used, a copy of the student materials and/or hand-outs. Please forward to Gus Feitzelmayer at e-mail: gusnorthstar@gmail.com



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