

THE PIPELINE

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SWWA

Saskatchewan Water
And Wastewater
Association
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JANUARY, 2009

1st Edition

SWWA PRESIDENT'S 2008 ANNUAL REPORT

The SWWA 26th annual conference and trade show held on November 5, 6, and 7 was a huge success and is now history! A total of 492 registered delegates attended the conference held for the second year at the Saskatoon T.C.U. Place convention centre. This is the third year in a row that we have had over 450 delegates in attendance.

The first annual Operator Certification Board stakeholders meeting held on the evening of November 4th at the Saskatoon Hilton Garden Inn hotel was a success.

The conference agenda included eleven technical sessions on water treatment and distribution and wastewater treatment and collection topics and six concurrent workshops. The two most well-attended one-half day workshops were "Solar Hot Water Heating in Saskatchewan", presented by Craig Shearer, Solar Freedom International Inc., Saskatoon, and "It's Only Iron and Manganese – It Can Be Treated", presented by David & Phil Hambley, AWI, Calgary. These workshops offered the delegates the chance to



enhance their training and receive CEUs for their certification.

The Watering Hole Ice Breaker and Trade Show, compliments of the suppliers, were well attended with 96 displays available.

Thanks to Mayor Don Atchison, for welcoming the delegates to Saskatoon. The conference's Keynote speaker, Sam Ferris, Director, Drinking Water Quality Section, Environmental Protection Branch, Sask. Ministry of

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Environment, Regina, presented a short address on "Drinking Water and Wastewater Management – Achievements and Future Challenges".

During the Annual General Meeting, two incumbent directors, Cory McMahon of Biggar and Rod Sexsmith of Assiniboia; and two new directors were elected for two-year terms, Roberta Sinclair of Prince Albert, and Susan Dobrowney of Saskatoon. Congratulations and thanks for donating your time to serve the members of SWWA. Several delegates



approached me after the AGM, to thank the SWWA board members for the Labour Market Analysis Report that was completed last year for the benefit of the members.

The banquet entertainment, Victor J. Hanson, musician, impressionist, and comedian extraordinaire, kept the crowd laughing by picking on members of the audience such as Bob, Sterling, Barbara, Carolyn, and Fred.

It has been a difficult year for our association. Jack Croteau of Pennant, current SWWA Director, passed away in his sleep on August 20th at the age of 61 years. Jack will be fondly remembered as a great friend and a hard worker dedicated to serving the members of our association.

The association is looking forward to 2009 to provide more training workshops during the year for the benefit of the operators of our province. We are also in discussion with the MWWA and AWWOA operator associations to organize common workshops between the three provinces. To help achieve this goal, Gus Feitzelmayer has been hired by SWWA as our new Training Coordinator. Gus will be planning and organizing the one-day workshops along with workshops and technical sessions presented at next year's conference. If you are willing to volunteer as a local on-site workshop organizer to assist Gus, or have any suggestions for a workshop topic, please contact Gus by email at swwa.training@accesscomm.ca.


I am also looking forward to the benefits to our members of a partnership participating with Western Canada Water in a Public Awareness Campaign. An ad hoc committee will define the scope of the project.

Members of the SWWA board will be manning a booth at the annual SUMA conference trade show on February 2nd and 3rd in Saskatoon to promote and provide information about our association to the city and town councillors, mayors, and administrators attending the conference.


I would like to thank our Office Manager, Monique Will; the 2008 Board of Directors, supplier reps (Randy Cheater and Wade Shutko), government rep (Peter Thiele), and SIAST rep (Gerry Rupchan), Website administrator (Lee Lynds), and Pipeline Editor (Bob Turnbull) for all of their great work this past year. I have enjoyed working with you.

I wish all of our members a Merry Christmas and a Happy and prosperous New Year!

Rick Hanson, ASCT
President, SWWA


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don.campbell@itt.com

www.ittwww.ca

OPERATOR CERTIFICATION BOARD STAKEHOLDERS MEETING

Approximately 50 delegates attended the first annual Operator Certification Board (OCB) stakeholders meeting on the evening of November 4th in the Commonwealth Room at the Saskatoon Hilton Garden Inn hotel. Dale Heshka, Moderator, started the meeting with the introduction of the panel members, John Wade, OCB Chairman; Sam Ferris, Thon Phommavong, Rod Broadfoot, Sask. Ministry of Environment; Rick Hanson, Rynette Moore-Guilluame, Mark Krecsy, Kelly Kish, and Cory McMahon, SWWA board members.

Rod gave a brief update on Sask. Environment's involvement regarding operator certification. All new ABC operator certification exams will now be in metric units and will also be unique to Canada.

John presented an update on the OCB committee and explained why there has been a delay in operators being certified. The reason given was the fact the OCB was short a couple of board members for a couple of months and didn't have a meeting quorum. The OCB usually holds 5 meetings a year which excludes the summer months due to vacation leave. There were 751 renewals and 473 applications

approved in 2007. The cutoff date for certification applications is one week prior to each OCB meeting. The next OCB meeting is scheduled for December 12th, 2008, at which time they will set the 2009 meeting dates.

Rick told the audience that this first stakeholders meeting was held as a result of a meeting held on September 24th in Regina between Ms. Liz Quarshie, Sask. Deputy Minister of Environment, City of Saskatoon representatives, and SWWA. Future stakeholders meetings will also be held in conjunction with the annual SWWA conference. The current OCB committee is made up of representatives from SIAST, SARM, SUMA, and SWWA for a total of four members.


The meeting delegates asked representatives from the OCB, Sask. Ministry of Environment, and SWWA several questions regarding certification and training. They also provided input and suggestions to the panel. The meeting was a success and everyone in attendance was looking forward to improvements in the upcoming year.

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AWARDS



2008 Dave Clark Operator of the Year Award – (Left) Aaron Erickson, Mueller Flow Control & SWWA Jr. Supplier Rep. and (Right) Roy Hammond, Town of Elrose.



2008 Dale Heshka Operator of the Year Award – (Left) Dale Heshka and (Right) Brian Giroux, Town of Fort Qu'Appelle.



2008 Supplier of the Year Award – ATAP Infrastructure Management Ltd. Shown in Picture – Ken Turnbull, Senior Operations Manager (Left) and Rick Hanson, President of the Saskatchewan Water and Wastewater Association



EXEC

2008/2009 SWWA EXECUTIVE
Left to right back row: Karlis Van Caesele, Rod Sexsmith, Mark Krecsy, Rick Hanson, Cory McMahon. *Left to right front row:* Wade Shutko (Senior Supplier Rep.), Susan Dobrowney, Roberta Sinclair, Kelly Kish, Rynette Moore-Guillaume, Gus Feitzelmayer (Training Coordinator). Missing: Aaron Erickson (Junior Supplier Rep.), Peter Thiele (Gov't. Rep.), Gerry Rupchan (SIASST Rep.), and Monique Will (Office Manager).

WATER FOR PEOPLE

SWWA Conference Fundraiser!

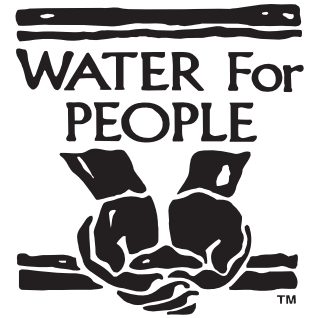
Neil Hollands, Chair, Western Canada Section AWWA, Water for People Committee, thanks the delegates and suppliers that attended the 2008 SWWA conference for supporting their organization.

Together we raised \$2,495 for Water for People!

The "Water for People" silent auction raised \$1,740 and the 50/50 draw raised \$755 thanks to the support of the ClearTech Industries staff, and Audrey Arisman, WCW Executive Director. Thank you to the suppliers who donated the auction items, and to the delegates who purchased the items and tickets to help raise the funds.

To increase its impact, WFP is adopting a more regional approach to development within the countries in which it works. By concentrating its efforts on multiple communities within a defined region, WFP hopes to achieve 100 percent water and sanitation coverage in that region while increasing efficiencies and building stronger relationships with partners and the communities served. In this way, WFP will make a more meaningful and measurable impact on the global water crisis.

This year your donations from the silent auction and 50/50 draw have been designated by WFP to partner with Bengal Engineering and Science University to support the North 24 Parganas region, West Bengal, India, where they will be installing 20 Arsenic removal filters to serve 10,000 beneficiaries with Arsenic free drinking water.



2008 SWWA AWARDS TO SIAST STUDENTS

On November 24, 2008, the Saskatchewan Institute of Applied Science and Technology (SIAST) announced the 2008 recipients of two SWWA scholarships awarded to SIAST students.

The Saskatchewan Water and Wastewater Association Centennial Merit Scholarship was awarded to Lane Neilson of the Water Resources Engineering Technology Division. This \$1,500 scholarship is matched by Saskatchewan Advanced Education, Employment and Labour. It is awarded on a Saskatchewan High School graduate enrolled full-time in the on-campus Water Resources Engineering Technology program. It is based on the highest average of English Language Arts (A-30 & B-30) and Social Studies 30 or Native Studies 30 and the highest grade in 20 or 30 level Math and Science.

The Gus Feitzelmayer Scholarship was awarded to Joshua Yohnke, also of the Water Resources Technology Division. This \$1,000 scholarship is awarded to a 5th Semester Water Resources Engineering Technology student. It is based on the highest academic standing in the 3rd and 4th Semester of Water Chemistry, Water & Wastewater Treatment and Ground Water Hydrology.

The advertisement for Aquifer Distribution Ltd. features a dark background with a central image of a water tap. The text is arranged in two columns. On the left, the company name "AQUIFER Distribution Ltd." is prominently displayed in a large, bold, white font. Below it, the name "Warren Fehr" is listed as the Manager, along with his contact information: "Pumps / Plumbing / Waterworks" and the email "warren.aquifer@sasktel.net". On the right, the "HEAD OFFICE" is located at 227A Victoria Crescent, Saskatoon, SK S7K 6N8, with phone (306) 242-1907, fax (306) 555-2115, and fax (306) 376-1919. The "BRANCH OFFICE" is at 615 McDonald Street, Regina, SK S4N 2K5, with phone (306) 352-7381 and fax (306) 359-3706.

The advertisement for Butler Survey Supplies Ltd. features a black and white logo of a person using a surveying instrument. The company name "BUTLER SURVEY SUPPLIES LTD." is in a bold, sans-serif font, with the tagline "Your Partner in the Field" underneath. A black horizontal bar contains the text "Sales • Service • Rentals" in white. Below this, a list of services is provided: "Pipe Locators • GPS • Total Stations", "• 3D/2D Machine Control • Lasers", and "• Levels • Field Supplies". At the bottom, the address "385 Park St. (Ross Park Plaza) Regina, SK S4N 5B2" and contact information "Ph: (306)525-6422 Fax: (306)525-6433 www.butlersurvey.com" are listed.

2009 WORKSHOP CALENDAR

FEBRUARY 2009

February 10: Jar Testing (0.7 CEU), Prince Albert; presented by Rick Hanson, Optimize Consulting

February 20: Jar Testing (0.7 CEU), Assiniboia; presented by Rick Hanson, Optimize Consulting

MARCH 2009

March 17: Chemical Feed Pumps (0.3 CEU), Shaunavon; presented by Wade Shutko, ClearTech

March 19: Chemical Feed Pumps (0.3 CEU), Lanigan; presented by Rick Day, ClearTech

March 25: Lagoon Operation (0.5 CEU), Rosetown; presented by Peter Thiele, Ministry of Environment

March 31: Cylinder-mount Chlorinators, 5 hours (CEU – TBA), Melville; presented by Dale Heshka

APRIL 2009

April 7: Cylinder-mount Chlorinators, 5 hours (CEU - TBA), Watrous; presented by Dale Heshka


April 23: Lagoon Operation (0.5 CEU), Langenburg; presented by Peter Thiele, Ministry of Environment;

April 29: Lift Station Operation and Maintenance (0.5 CEU), Saskatoon; presented by ITT Water and Wastewater

MAY 2009


May 6: Math for Operators (0.5 CEU), Whitewood; presented by Sean Bayer, MR2 McDonald & Associates

May 12: Math for Operators (0.5 CEU), Weyburn; presented by Sean Bayer, MR2 McDonald & Associates

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Fax: (306) 244-1715
Cell: (306) 222-0291
Toll Free: (800) 268-5111
tyler.klath@wolseleyinc.ca

Math for Operators

The objective of the "Math for Operators" workshop is to provide water and wastewater facility operators with an introductory understanding of everyday mathematics used in the water/wastewater industry. Over the five hour workshop, operators will be provided with both theoretical concepts and practical examples that can occur in a water or wastewater setting.

WORKSHOP REGISTRATION FORM

Math for Operators (0.5 CEUs) - Class Size: Minimum 15, Maximum 30, Lunch Included

May 6 – **Whitewood**

Location: Whitewood Inn

Junction of Highway #1 and Highway #9

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

May 12 – **Weyburn**

Location: Weyburn Public Works & Fire Hall

55 – 16th Street

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Deadline for workshop registration: two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$60.00 plus \$3.00 GST - \$63.00 _____

Non-Member Price: \$110.00 plus \$5.50 GST – \$115.50 _____

2009 Membership + Member Price: \$100.00 plus \$5.00 GST – \$105.00 _____

Complete the following IF you are purchasing a 2009 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
46 Windfield Road
REGINA SK S4V 0E7

Lift Station Operation and Maintenance

This workshop is aimed at operators of small wastewater lift stations. Operation, maintenance and troubleshooting of end-suction submersible sewage pumps will be explained. A number of small (2.5HP) end-suction pumps will be disassembled and reassembled, and pump rating will be demonstrated.

WORKSHOP REGISTRATION FORM

Lift Station O & M (0.5 CEUs) - Class Size: Minimum 12, Maximum 15, Lunch Included

April 29 – Saskatoon

Location: ITT Water & Wastewater

Sign In Time: 8:00 a.m. – 8:30 a.m.

3111 Millar Ave. Bay 10
turn North off Circle Drive, West of
Saskatchewan R. & railroad track.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

There is a large car dealership on turnoff.

Name: _____

Street Address/Box Number: _____

City: _____ **Postal Code:** _____

Work Phone: _____ **Home Phone:** _____

Deadline for workshop registration: two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$125.00 plus \$6.25 GST - \$131.25 _____

Non-Member Price: \$175.00 plus \$8.75 GST – \$183.75 _____

2009 Membership + Member Price: \$165.00 plus \$8.25 GST – \$173.25 _____

Complete the following IF you are purchasing a 2009 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
46 Windfield Road
REGINA SK S4V 0E7

SWWA Tradeshow 2008

The 2008 SWWA Tradeshow took place on Wednesday, November 5 and Thursday, November 6. This year the Tradeshow saw 96 booths participating. On Wednesday, in conjunction with the tradeshow, the Ice Breaker Watering Hole was held. Thank you to all the suppliers who helped make the Tradeshow a great success again this year. Suppliers, watch for information about registration for the 2009 Tradeshow in upcoming Pipeline editions. See you all next year!

Cory McMahon
Director SWWA
2008 Tradeshow Chair



Left to right: Joseph Hancock, Town of Maple Creek, winner of Dewalt handtools door prize, and Rick Hanson, SWWA President.



Left to right: Rick Hanson, SWWA President, Thon Phommavong, and Sam Ferris, Sask. Ministry of Environment.



Spousal Program 2008

The 2008 SWWA Spousal Program took place on Thursday, November 6. The afternoon began with thirty-two women being bussed from either the Hilton Garden Inn or the Radisson Hotel to the Paramount Day Spa. At the Spa the ladies were treated to a facial, a paraffin hand wax treatment, and their choice of a make-up application, hairstyling, or a massage. Throughout the afternoon, the ladies

enjoyed refreshments and snacks as well. At the end of the afternoon of pampering, the ladies were bussed back to their respective hotels. Thank you to all the ladies who joined us for the afternoon of relaxation and socializing. It was a wonderful day and I hope that everyone had a great time. We wish you all a wonderful holiday season!

Cory and Denaye McMahon





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KEVIN DYCK
Branch Manager

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Lagoon Operation

This one-day workshop is designed for operators whose community or employer treats wastewater with a lagoon system. It teaches operation and maintenance of wastewater lagoons. Design, construction, theory of operation, maintenance and troubleshooting are discussed.

WORKSHOP REGISTRATION FORM

Lagoon Operation (0.5 CEUs) - Class Size: Minimum 15, Maximum 30, Lunch Included

March 25 – Rosetown

Location: Great Plains College
1005 Main Street

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

April 23 – Langenburg

Location: Langenburg Community Centre
101 Carl Avenue West

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ **Postal Code:** _____

Work Phone: _____ **Home Phone:** _____

Deadline for workshop registration: two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$90.00 plus \$4.50 GST - \$94.50 _____

Non-Member Price: \$140.00 plus \$7.00 GST - \$147.00 _____

2009 Membership + Member Price: \$130.00 plus \$6.50 GST - \$136.50 _____

Complete the following **IF** you are purchasing a 2009 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
46 Windfield Road
REGINA SK S4V 0E7

Jar Test Workshop

This one-day workshop is of particular interest to operators working in a surface water treatment facility. It teaches the theory of coagulation, flocculation, sedimentation, dosage calculations and basic laboratory procedures. Participants will actually perform jar tests that will allow them to determine the most economical dosage of coagulant to use for efficient coagulation and flocculation. Commonly available water treatment plant test equipment and chemicals are used.

Each person **MUST** bring 20 litres (5 gallons) of your RAW water and samples of your plant coagulants and coagulant aids to test at the workshop. Also bring a hand-held NTU meter (if you have) and your plant's current coagulant dosage.

WORKSHOP REGISTRATION FORM

Jar Testing (0.7 CEUs) - Class Size: Minimum 10, Maximum 12, Lunch Included

February 10 – Prince Albert

Location: Municipal Services Centre (MSC)
#11 – 38 Street East
turn South onto Central Ave. from Marquis Rd., the first left is 38 Street East. MSC on right of street.

Sign In Time: 8:00 a.m. – 8:15 a.m.
Start Time: 8:15 a.m.
End Time: 5:00 p.m.

February 20 – Assiniboia

Location: Town Forum
131 – 3rd Avenue West

Sign In Time: 8:00 a.m. – 8:15 a.m.
Start Time: 8:15 a.m.
End Time: 5:00 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ **Postal Code:** _____

Work Phone: _____ **Home Phone:** _____

Deadline for workshop registration: two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$110.00 plus \$5.50 GST - \$115.50 _____

Non-Member Price: \$160.00 plus \$8.00 GST - \$168.00 _____

2009 Membership + Member Price: \$150.00 plus \$7.50 GST – \$157.50 _____

Complete the following IF you are purchasing a 2009 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
46 Windfield Road
REGINA SK S4V 0E7

Chemical Feed Pumps

This half-day workshop discusses theory of operation, maintenance and troubleshooting of positive displacement chemical solution feed pumps. Operators will examine disassembled pump components and will re-assemble the pumps. Solution preparation will be explained and calibration will be performed. Questions & answers after lunch.

WORKSHOP REGISTRATION FORM

Chemical Feed Pumps (0.3 CEUs) - Class Size: Minimum 12, Maximum 15, Lunch Included

March 17 – Shaunavon

Location: Legion Hall
157 – 1st Avenue

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 1:30 p.m.

March 19 – Lanigan

Location: Lanigan Town Hall (Community Centre)
21 Downing Drive
(Curling Rink is on other end of building)

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 1:30 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ **Postal Code:** _____

Work Phone: _____ **Home Phone:** _____

Deadline for workshop registration: two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$60.00 plus \$3.00 GST - \$63.00 _____

Non-Member Price: \$110.00 plus \$5.50 GST - \$115.50 _____

2009 Membership + Member Price: \$100.00 plus \$5.00 GST – \$105.00 _____

Complete the following IF you are purchasing a 2009 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
46 Windfield Road
REGINA SK S4V 0E7

Cylinder-Mount Chlorinators

This one-day workshop is aimed at operators of water/wastewater systems where chlorine gas is dispensed with a cylinder-mount vacuum chlorinator. Theory, operation, maintenance and troubleshooting of cylinder mount chlorinators will be discussed and a number of chlorinators will be disassembled and reassembled. One-day workshop.

WORKSHOP REGISTRATION FORM

Cylinder-Mount Chlorinators (CEUs to be attributed) - Class Size: Minimum 12, Maximum 15, Lunch Included

March 31 – Melville

Location: Community Works Building, Frog Room
800 Prince Edward Street, across from water tower

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

April 7 – Watrous

Location: Heritage Room
Watrous Civic Centre
404 Main Street, use North entrance

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ **Postal Code:** _____

Work Phone: _____ **Home Phone:** _____

Deadline for workshop registration: two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$125.00 plus \$6.25 GST - \$131.25 _____

Non-Member Price: \$175.00 plus \$8.75 GST – \$183.75 _____

2009 Membership + Member Price: \$165.00 plus \$8.25 GST – \$173.25 _____

Complete the following IF you are purchasing a 2009 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

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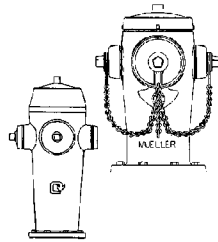
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Upcoming A.B.C. Operator Certification Preparation Courses Spring 2009

Jan. 19-23	Class I - Water Treatment & Distribution
Feb. 16-20	Class II - Water Treatment & Distribution
Mar. 9-13	Class I - Wastewater Treatment & Collection
Mar. 23-27	Class II - Wastewater Treatment & Collection
Apr. 20-24	Class III-IV Water Treatment *

(*If you are interested in ATAP's Class 3-4 Water Treatment Certification Preparation Course, please contact our office directly for information on registration.)

Jan. 14	Confined Space Entry
Jan. 15	WHMIS & Safety
Feb. 11	Spring Maintenance (Collection Systems)
Feb. 12	Water Main Swabbing
Apr. 15-16	Gas Chlorination (2-day)

(All courses and workshops will be held in Saskatoon.)

Power Mobile Equipment (PME) Evaluation and Training

ATAP can provide on-site evaluation and training to help your community meet the new Occupational Health and Safety Regulations. Please contact our office or visit our website.

Registration forms and information may be found
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ANNUAL SWWA 2009 GOLF TOURNAMENT UPDATE

After a very successful 2008 golf tournament in Weyburn, mark your calendar for the 2009 golf tournament planned for Wynyard on Saturday, June 6th. There will be an operator training workshop held the day before, so plan to stay overnight and attend the golf tournament and BBQ the next day.

Further information on the hotel and camping facilities, workshop, and golf registration will be posted on the SWWA website and included in the Pipeline newsletter as the details are confirmed.



PANDEMIC WORKSHOP FOLLOW UP

During my session at the SWWA convention the one question I didn't have an answer for "Can viruses that cause a pandemic, survive in water and wastewater? Should we be doing something about that?"

Here is the answer.

Yes, viruses can survive in water. However the normal levels of chlorine which Water Operators are adding to water kill the viruses and the bacteria. So no additional action for treating water is required.

For wastewater the virus can survive in the wastewater between 4 and 32 days. It is dependant on the pH level, salinity and the temperature of the wastewater.

Tests where the temperature is 28 °C, salinity 20 ppt, and pH of 8.2, the virus only survived 4 days. So the higher the temperature, salinity and pH the less time viruses survive.

Doug Leask
Business Improvement Services
Department of Agriculture

The Ministry of Environment was also questioned about viruses in general and the SWWA would like to share their response with you.

Viruses in Drinking Water

Viruses are extremely small microorganisms and host specific, which means that viruses that infect animals or plants do not usually infect humans. Viruses that can multiply in the gastrointestinal tract of humans or animals are known as "enteric viruses", and more than 140 enteric viruses are known to infect humans.

Enteric viruses are transmitted via the faecal-oral route, and vehicles for transmission include water and person-to-person contact. The illnesses associated with enteric viruses are diverse, resulting in numerous symptoms including fever, malaise (fatigue), anorexia, diarrhea, and nausea. In addition to gastroenteritis, enteric viruses can cause serious illness such as, meningitis, infectious hepatitis and poliomyelitis.

As per 'Water Regulations, 2002', a minimum of 4-log (99.99%) reduction is required for the removal and/or inactivation of viruses in drinking water systems regulated by the Ministry of Environment, Saskatchewan. The multi-barrier approach is the best approach to reduce enteric viruses and other waterborne pathogens in drinking water. This approach includes assessing the entire drinking water system, from the source water through the treatment and distribution systems to the consumer. Generally,

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minimum treatment of water supplies should include coagulation, clarification, adequate filtration (or equivalent technologies) and disinfection. Studies have shown that regular full conventional treatment processes can remove enteric viruses. The removal of enteric viruses from raw water may be complicated by their small size and relative ease of passage through filtration barriers. In general, viruses are effectively inactivated through the application of various disinfection technologies.

The monitoring of enteric viruses is difficult and not very practical. Some of the limitations can be due to the lack of available trained personnel for specialized lab equipment, the high costs of test analysis, and the need to obtain a large volume of water sample with high virus concentrations. However, routine



monitoring and testing procedures for detecting indicator organisms such as, Bacteria (E. Coli) and Total Coliforms are widely used by most water treatment plants. These tests are both good detection methods for locating potential enteric viruses that may be present in the water.

As far as personal safety of Operators is concerned they should ensure that they have primary immunization (three doses) for tetanus, diphtheria, etc, including an immunization booster in the last 10 years. When an Operator receives a tetanus-prone wound at work, a booster may be needed after a consultation with a physician. Vaccination for Hepatitis A and B should be offered to operator's wishing to be immunized. It is every employee's choice if they update their tetanus and/or receive a Hepatitis A and B shot.



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