

THE PIPELINE

SWWA Office: 46 Windfield Road, Regina, SK S4V 0E7
 Phone: (306) 761-1278 Fax 761-1279 E-mail: swwa.office@sasktel.net

SWWA

Saskatchewan Water
 And Wastewater
 Association
 Editor: Bob Turnbull
 Box 322,
 Birch Hills, SK S0J 0G0
 Fax: 749-3336
 E-mail: swat1@sasktel.net
 www.swwa.sk.ca

MAY 2009

3rd Edition

Tentative Conference Agenda • Nov. 3–6, 2009

Tuesday, Nov 3

#	Day/Time	Workshop/Session
	6:30 - 8:30 p.m.	Conference Registration
	7:00 p.m.	OCB Stakeholder Meeting & Min. of Environment updates
	7:00 p.m.	Exam Session

Wednesday, Nov 4

#	Day/Time	Workshop/Session
	7:30 - 10:00 a.m.	Conference Registration
1 - TS	8:30 - 9:15 a.m.	La Ronge Water Plant Pilot Study
2 - TS	8:30 - 9:15 a.m.	Canada-Wide Strategy for Municipal Waste Water Effluents
3 - TS	8:30 - 9:15 a.m.	Calibration of On-Line Turbidity Meters
	9:15 - 9:45 a.m.	Coffee
4 - TS	9:45 - 10:40 a.m.	Meadow Lake's Copepod Control Project
5 - TS	9:45 - 10:40 a.m.	Education & Training Programs for Operators Available from SIAST
6 - TS	9:45 - 10:40 a.m.	Cold Climate Treatment Wetlands: Design & Performance
7 - TS	10:40 - 11:25 a.m.	A Case Study on The Preparation of Operational Manuals
8 - TS	10:40 - 11:25 a.m.	Ammonia and Phosphorus Removal in Cold Climate Lagoon-based Wastewater Treatment Sys.
9 - TS	10:40 - 11:25 a.m.	Rights & Responsibilities of Occupational Health & Safety
	11:30 - 12:30	Lunch
1 WKSHP	12:30 - 4:00 p.m.	Hydrant Operation and Maintenance - 0.3 CEUs
2 WKSHP	12:30 - 4:00 p.m.	True Grit - The Workshop - 0.3 CEUs
3 WKSHP	12:30 - 4:00 p.m.	Exactly What is Free Chlorine - CEUs to be attributed
	4:30 - 7:00 p.m.	Trade Show Opens & supper on your own
	7:00 - 9:30 p.m.	Trade Show Continues & Watering Hole Ice Breaker Begins

Thursday, Nov 5

#	Day/Time	Workshop/Session
	7:30 - 8:30 a.m.	Breakfast
AGM	8:30 - 9:30 a.m.	AGM - Opening Meeting & Remarks; Key Note Address: What's new in Certification in Canada
	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.	Building Procedures with the SOP Kit - 0.3 CEUs
5 WKSHP	1:00 - 4:30 p.m.	High Density Polyethelene (HDPE) Pipe Fusion - 0.3 CEUs
6 WKSHP	1:00 - 4:30 p.m.	Asset Management - CEUs to be attributed
	6:00 - 6:30 p.m.	Cocktails
	6:30 - 10:00 p.m.	Banquet & Entertainment

Friday, Nov 6

#	Day/Time	Workshop/Session
	8:00 - 9:00 a.m.	Breakfast
10 - TS	9:00 - 9:45 a.m.	The Association of Boards of Certification and Certification in Canada
	9:45 - 10:15 a.m.	Coffee
11 - TS	10:15 - 11:00 a.m.	Moose Jaw's New Sewage Treatment Facility, Operation & Optimization
AGM	11:00 - 12:00 p.m.	Reconvene AGM/ Elections
	12:00 - 1:00 p.m.	Lunch - Final Draws & Closing Remarks

2009 SWWA CONFERENCE TRADE SHOW REPORT


The 2009 trade show plans are well underway. We will again be using the Salon area of TCU Place. This large area enables us to offer space for at least 100 booths of equal size to our suppliers. Invitation letters to suppliers will be arriving in early May.

Booths will continue to be sold on a first come - first serve basis. In order for the booth space to be held, payment must be received within two weeks after a booth has been confirmed. This will be another great opportunity for conference delegates to learn first hand about new and existing equipment and services provided to our industry. I look forward to seeing everyone in November.

Susan Dobrowney
Director – Trade Show Chairperson.


WORKSHOP CANCELLATION POLICY

Due to an increasing number of short notice cancellations in workshop registrations the SWWA Executive has adopted a no refund policy. There will be no refunds for registrations cancelled in the two weeks prior to the date of the workshop. This policy is effective immediately.



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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.

OPERATOR CERTIFICATION BOARD SURVEY

The Operator Certification Board (OCB) held the first annual stakeholders meeting on November 4th at the 2008 SWWA conference. Several issues were discussed at the meeting and suggestions were put forward. The SWWA board of directors would like to hear any comments, compliments, or complaints from their members regarding the OCB since the meeting was held. This information will be discussed with the OCB. Please send your comments by email to Rick Hanson, SWWA President, at rhanson@citypa.com or phone 306-953-4905. Thank you.

2009 ANNUAL CONFERENCE HIGHLIGHTS

This year's conference will again host the Operators Certification Board (OCB) Stakeholder's meeting at the Saskatoon Hilton Garden Inn Commonwealth Room on Tuesday, November 3rd at 7:00 p.m. This is the opportunity for operators, councilors and town administrators to voice their concerns with certification and recertification issues to the OCB and Sask. Environment members in attendance. We are looking for your input to improve the certification process with the OCB. You should plan on attending this meeting as it will be an important step in improving ongoing communications with the OCB.

An exam session is scheduled for Tuesday, November 3rd at 7:00 p.m. in the Hilton Garden Inn Estevan Room for those operators who want to write their Operator certification exam. Sign in time starts at 6:30 p.m. The exam session registration form is included in this issue of the Pipeline newsletter and on the SWWA website.

This year's Keynote Speaker is Mr. Bill Hyslop, BC Operator Certification Program. Bill is a Director on the Association of Boards of Certification (ABC). Bill will be speaking at the AGM on Thursday morning and presenting a technical session on Friday morning.

Nominations are now being accepted for the upcoming Board of Directors elections at this year's conference. A Regular member in good standing is eligible to be elected to the board. If you are interested in letting your name stand for nomination to the SWWA Board or have any questions, please contact me by email at rhanson@citypa.com or phone at 953-4905.

Rick Hanson
President





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mike.perrin@wolseleyinc.ca

SWWA Conference 2009

Nov. 4 & 5 at TCU Place and Nov. 6 at the Hilton Garden Inn, Saskatoon, SK

Supplier Without a Booth Registration Form

Member Type:

Supplier:

A NON-VOTING member of the SWWA and is a company and/or person in the business of supplying goods and/or services to the water and/or wastewater industry.

Company Name: _____

Mailing Address: _____

City/Province: _____ **Postal Code:** _____

Name: _____ **Title:** _____

Phone (Work): _____ **Fax:** _____

Conference Registration Booth will be open

Tuesday, November 3 in the Prince Albert Room of the Hilton Garden Inn from 6:30 pm – 8:30 pm

Wednesday, November 4 at TCU Place from 7:30 am – 10:00 am

Supplier Without a Booth Conference Package:

All days, all meals, 2010 SWWA Membership, Trade Show & Banquet.

All conference information sessions, excluding workshops.

*****FAXED REGISTRATIONS ARE NOT ACCEPTED*****

	Fee	5% GST R124095159	TOTAL	Amount Paid
Early Bird Conference Package For registrations & payments postmarked by October 1, 2009	<input type="checkbox"/> \$520.57	\$26.03	\$546.60	_____
Conference Package For registrations & payments postmarked after October 1, 2009	<input type="checkbox"/> \$670.57	\$33.53	\$704.10	_____
Additional Options:				
<u>Extra</u> Banquet Ticket (per extra ticket)	<input type="checkbox"/> \$43.85	\$2.19	\$46.04	_____
Pipeline Advertisement (Business Card) <i>Submit with form</i>	<input type="checkbox"/> \$150.00	\$7.50	\$157.50	_____
Website Link	<input type="checkbox"/> \$50.00	\$2.50	\$52.50	_____
			TOTAL	

2010 SWWA MEMBERSHIP

If additional supplier memberships are required and **are not attending** the conference, please complete the top of this form (use separate form per individual) 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.
Submit form and payment to: SWWA, 46 Windfield Road, Regina, SK S4V 0E7

A limited number of "Conference Rate" rooms are available until October 1.
Hilton Garden Inn, 90 22nd Street East, Saskatoon – Phone: (306) 244-2311
Radisson Hotel, 405 20th Street East, Saskatoon – Phone: (306) 667-2365

SWWA Annual Golf Tournament

Texas Scramble • Limited Space Available



Saturday, June 6, 2009 in Prince Albert, Saskatchewan
Kachur's Country Club Golf Course
Shellbrook Hwy – 8 Km. West on Hwy #3
Registration 9:00 a.m. & Tee-Off Times 10:00 a.m.

Cost: \$60.00 plus \$3.00 GST per person if payment & registration received by May 6
\$75.00 plus \$3.75 GST per person if payment & registration received after May 6

(GST Registration # R124095159)

Includes: 18 holes of golf, steak supper, and prizes

Transportation provided from Marlboro Inn to golf course.

Name: _____	Phone Number: _____
Address: _____	Employer: _____
Number Golfing: _____	Attending banquet only, not golfing (\$15.00 + \$0.75 GST) per person: _____
Handi-cap : _____	OR average score: _____

BANQUET AT THE GOLF COURSE

Please make cheques payable to:
Saskatchewan Water and Wastewater Association
Submit this form and your cheque to:
SWWA
46 Windfield Road
REGINA SK S4V 0E7

Thank you to **ClearTech Industries Ltd.**, sponsor of the tournament beer cart

Accommodations:

Block of Rooms set aside under SWWA at Marlboro Inn, 67 – 13th Street East, 763-2643

Group Block #1255. Please give this number when booking your room.

Camping:

Shell River Campground, Highway #3 West, across from golf course, 763-3465

Mary Nesbit Campground, Highway #2 North, 763-5454

Note: A limited number of carts will be available for rental on a first come first served basis on Saturday morning after 7:00 a.m. Sorry no reservations will be accepted for carts.

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Invite you come out and try your luck at winning a prize in our Hole-In-One contest!
2 prizes of \$4,000 could be won at this year's tournament. See you there!

SWWA Conference 2009

Nov. 4 & 5 at TCU Place and Nov. 6 at the Hilton Garden Inn, Saskatoon, SK

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 3 in the Prince Albert Room of the Hilton Garden Inn from 6:30 pm – 8:30 pm
 Wednesday, November 4 at TCU Place from 7:30 am – 10:00 am

Regular and Agency Member Conference Package:
 All days, all meals, 2010 SWWA Membership, Trade Show & Banquet.
 All conference information sessions and workshops.

*****FAXED REGISTRATIONS ARE NOT ACCEPTED*****

	Fee	5% GST R124095159	TOTAL	Amount Paid
Early Bird Conference Package For registrations & payments postmarked by October 1, 2009	<input type="checkbox"/> \$320.57	\$16.03	\$336.60	_____
Conference Package For registrations & payments postmarked after October 1, 2009	<input type="checkbox"/> \$470.57	\$23.53	\$494.10	_____
Additional Options for Conference Delegates:				
<u>Extra</u> Banquet Ticket (per extra ticket)	<input type="checkbox"/> \$43.85	\$2.19	\$46.04	_____
<u>Extra</u> Meal Package (banquet ticket <u>not</u> included)	<input type="checkbox"/> \$103.64	\$5.18	\$108.82	_____
<u>Extra</u> Meal Package (banquet ticket included)	<input type="checkbox"/> \$147.49	\$7.37	\$154.86	_____
Spousal Program (Maximum Number 45) Name of attendee:	<input type="checkbox"/> \$40.00	\$2.00	\$42.00	_____
			TOTAL	_____

2010 SWWA MEMBERSHIP

If you **are not attending** the conference, but would like to obtain a 2010 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.
 Submit form and payment to: SWWA, 46 Windfield Road, Regina, SK S4V 0E7

A limited number "conference rate" rooms are available until October 1.
 Hilton Garden Inn, 90 22nd Street East, Saskatoon – Phone: (306) 244-2311
 Radisson Hotel, 405 20th Street East, Saskatoon – Phone: (306) 667-2365

Operator of the Year Award 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 _____
 Email 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: (306) 761-1279
 Mailing Address: 46 Windfield Road REGINA SK S4V 0E7



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Aging Infrastructure

This workshop discusses the historical reasons for our current water/wastewater infrastructure deficit. The workshop will key in on the status and age of our water treatment/storage systems, distribution systems with an overview on the status of wastewater collection systems. Discussion will include dealing with systems as they are now and how one may deal with future water quality guidelines and standards. Deficiencies and future needs and a number of technology options for rehabilitation will be discussed. There will also be a brief overview of asset management. A five hour workshop.

WORKSHOP REGISTRATION FORM

Aging Infrastructure: (CEU TBA) - Class Size: Minimum 35, Lunch Included

June 5, 2009 – Prince Albert

Location: Marlboro Inn
67 – 13th Street East

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 3:30 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.

No refunds for cancellations within the two (2) weeks prior to date of 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

Conference Exam Session

Tuesday, November 3, 2009

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 2 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
46 Windfield Road
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Conference 2009 Abstracts

Technical Sessions (TS)

TS 1 La Ronge Water Plant Pilot Study: A pilot study was done at La Ronge to address two water quality issues: high organics causing high disinfection by-products, and turbidity. Two ion exchange processes were piloted. Although the principal of treatment was similar, the processes themselves could not be more different. Microfiltration membranes were piloted for turbidity removal.

TS 2 Canada-Wide Strategy for Municipal Waste Water Effluents: Saskatchewan Ministry of Environment (MOE) will provide an update for SWWA members on this strategy, which was endorsed in February 2009. The MOE, on behalf of the Canadian Council of Ministers of the Environment, led the development of the Strategy; it was six years in development. The presentation will cover the rationale, requirements, timelines, works affected, and implementation of the Strategy. An update will also be provided on any changes to legislation or standards affecting the water and wastewater industry in Saskatchewan.

TS 3 Calibrating On-line Turbidity Meters: This presentation will briefly explain what turbidity is and transition into describing the principle operation of the Hach 1720 E turbidity meter. The speaker will explain how this instrument is cleaned and calibrated. He will end the presentation with a number of pictures showing where this apparatus is located and used within the Buffalo Pound Water Treatment Facility.

TS 4 Meadow Lake's Copepod Control Project: The Town's Water Treatment Plant has been battling copepods in the raw water storage ponds since the 90's. Over the years, various methods had been implemented to try to reduce motile copepods. In 2007, the water plant received approval to treat the raw water with chloramines for the purpose of copepod control. This method has resulted in very low motility rates and has been very effective.

TS 5 Education and Training Programs for Operators Available from SIAST: This will be an overview of operator training in reference to current Saskatchewan Certification Guidelines. Topics that will be covered include: SIAST Technology Programs, Water and Wastewater Technician Program, and Water and Wastewater Continuing Education Workshops. The focus will be on viewing the industry not just as a job, but as a career.

TS 6 Cold Climate Treatment Wetlands: Design & Performance: Constructed wetlands are gaining widespread use as a simple, low cost means of wastewater treatment. Introduction of constructed wetlands technology into the northern United States has been limited by the ability of conventional wetland systems to operate without freezing in winter. A design approach using subsurface-flow constructed wetlands covered with an insulating mulch layer has been demonstrated to prevent freezing. However, the mulch layer will affect oxygen transfer rates, pollution removal performance and plant establishment. These factors must be addressed for successful application of constructed wetlands technology in cold climates.

TS 7 A Case Study on the Preparation of Operations Manuals: This session provides a framework that will help operators meet the challenges and avoid the pitfalls that may be waiting. Using case studies and lessons learned through experience, this session lays out a plan that will help get started, and guide you along the way. The session includes information on how to plan your manual, how to find the resources you need, and how to manage the project to a successful conclusion.

TS 8 Ammonia and Phosphorus Removal in Cold Climate Lagoon-based Wastewater Treatment Systems: A Submerged Attached Growth Reactor (SAGR) Demonstration Site following a primary aerated lagoon in Steinbach, MB has been in operation since August 2007. This system provides nitrification, with influent temperatures (post lagoon) below 0.5 degrees Celsius. The paper discusses the results of the demonstration site, and what it means for small towns operating lagoons on the prairies, in light of increasing

nutrient removal requirements. In addition to nitrification, upgrading lagoon based wastewater treatment systems to provide total phosphorus removal will be discussed.

TS 9 Rights and Responsibilities of Occupational Health and Safety:

The session will discuss the various rights and responsibilities arising out of the Occupational Health and Safety Act, 1993 and its Regulations, with a focus on the prevention, notification, investigation and potential consequences of a workplace accident.

TS 10 The Association of Boards of Certification and Certification in Canada:

Details being developed.

TS 11 Moose Jaw's New Sewage Treatment Facility, Operation & Optimization:

This is the first plant in Canada to use the Biolac Wave Oxidation process, one that combines long solids retention times with alternating multiple stages of aerobic and anoxic conditions. This allows biological nitrification and denitrification to occur in time rather than in space by using timed cycles of aeration. Some of the factors leading to this upgrade decision include new regulatory requirements, protecting the Moose Jaw River aquatic environment and increased industrial and municipal demand for wastewater treatment. The facility should be commissioned and operating by October 2009.

Workshops (WS)

WS 1 Hydrant Operation & Maintenance:

This presentation is for operators of distribution systems and covers AWWA standards of construction and operation for scissor, sliding gate, and compression styles of hydrants. Focus will mainly surround the compression and sliding gate dealing with operation problems and breakdown dismantling and trouble shooting repair of McAvity, Concord Daigle, Canada Valve, and Mueller hydrants. Training Credits, 0.3 CEU.

WS 2 True Grit – The Workshop: This workshop briefly describes the treatment process at Saskatoon Wastewater Treatment Plant, and its upgrades with particular emphasis on its grit removal and screening facility. The plant was having problems with its original grit/screening facility in terms of grit and screening disposal, operational and operator safety matters. Staff

studied and evaluated a number of options before deciding on a new system. The presentation will explain how the new system was installed, how it operates, required operational changes and impact on operator, instrumentation and maintenance staff. The benefits and disadvantages of the system will be explained, with discussion of what types of wastewater systems could use a similar process. Training Credits, 0.3 CEU.

WS 3 Exactly What is Free Chlorine: Workshop program not yet available. A 3 hour workshop. Training Credits to be determined.

WS 4 Building Procedures with the SOP Toolkit:

You wouldn't embark on a home renovation project without a plan and a good set of the right tools. The same principle applies to writing standard operating procedures (SOP) for your treatment facility. This workshop shows you how to analyze what you need, develop your own documentation plan, and acquire the tools to create clear, useable and standardized procedure documents. Bring some of your existing resource documents—or just bring all that expertise stored up in your head—and reshape it into a SOP prototype you can use as template for your “reno” project. This workshop will give you the confidence to move ahead and build the SOP library you need. Training Credits, 0.3 CEU.

WS 5 High Density Polyethylene (HDPE) Pipe Fusion:

In today's pipeline construction projects individuals performing thermal fusion joining shall have the training and tools necessary in the operation of PE fusion equipment and procedures. Our 3-4 hour workshop highlights the Fusion theory and application of Socket, Butt and Electro fusion for various pipe sizes. Training Credits, 0.3 CEU.

WS 6 Asset Management: This workshop will provide operators of water and wastewater utilities a broad overview of asset management practices and insights. It will discuss how their owners and operators can benefit from rigorous applications of these principles and practices in planning, making decisions and operating their utility. A three hour workshop. Training Credits, to be determined.



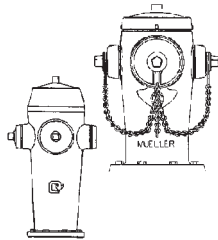
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 June 8 crn 03-615

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Note: For Prince Albert workshops phone 1-866-467-4278; contact Karla Smytaniuk

Note: When registering for a course or workshop, please use the Course Registration Numbers (CRN#)

Additional course information may be obtained by contacting:

Les Erikson (Prince Albert): 306-765-1719

SIAS Water & Wastewater Training Website:
<http://www.sias.sk.ca/programsited/palliser/civil/workshops.htm>

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WATERWORKS

37410 Yellowhead Road, Saskatoon, Saskatchewan S7K 3J7

George Tisserand

BRANCH SUPERVISOR
 Cell: (306) 221-0339
 gtisserand@emcoltd.com

Bus. (306) 343-3626
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Unit 305, 2265 Pembina Highway
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