

## Pump Efficiency Seminar & Technical Tours

**May 13-14, 2010**

City of Calgary Water Centre, AB

### Draft AGENDA

<b>May 13 - Pump Efficiency Seminar</b>		
<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
8:20 - 8:30	Welcome and Introductions	<b>Jim Miller</b> ✓ Vice-Chair of CWWA Energy Committee
8:30 - 9:00	TBD	<b>Mike Porretta</b> ✓ City of Edmonton
9:00 - 9:30	Pump station design: getting both the details and the big picture into clear focus	<b>Bryan Karney &amp; Peter Rusch/Hatch Mott</b> ✓ University of Toronto
9:30 - 10:00	Design of Pine Creek Pump Station	<b>Kim Fries</b> ✓ CH2M Hill
10:00 - 10:30	<b>Refreshment Break</b> - kindly provided by <b>City of Calgary</b>	
10:30 - 11:00	Pump Testing - Why, When and How?	<b>Sean Bolongaro</b> ✓ Associated Engineering
11:00 - 11:30	Exploring comprehensive metrics of pump and system efficiency within the context of overall performance and effectiveness	<b>Bryan Karney &amp; Fabian Papa</b> ✓ University of Toronto Hydratek and Associates
11:30 - 12:00	City of Regina Pump Energy Study: A Wider Perspective	<b>Roseanne Warren</b> ✓ Associated Engineering
12:00 - 1:00	<b>Lunch</b> - provided by <b>CWWA</b>	
12:45 - 1:15	Tour – Calgary Water Centre (optional)	
1:00 - 1:30	Pump Energy Efficiency Improvement with Epoxy Coating of Casing	<b>Qing Zhang</b> ✓ EPCOR
1:30 - 2:00	An Introduction to Real Time Pump Performance Monitoring	<b>Alexander Yates</b> ✓ AEMS Ltd

2:00 - 2:30	Ensuring Operating Efficiency in a Multiple Pump Station System	<b>Devan Thomas</b> ✓ AECOM
2:30 - 3:00	<b><i>Refreshment Break</i></b> - kindly provided by <b>City of Calgary</b>	
3:00 - 3:30	Variable Frequency Drive Application for Centrifugal Pumps - Wastewater Treatment Plants	<b>Samir Yammine</b> ✓ City of Saint John
3:30 - 4:00	Round-table discussions	<b>Jim Miller</b> Vice-chair of CWWA Energy Committee
4:00	Wrap-up and Final arrangements for tours	<b>Jim Miller</b> Vice-chair of CWWA Energy Committee
<b>May 14 - Technical Tours</b>		
<b>Tour 1</b>	City of Calgary Pine Creek WWTP. Inlet Pump Station	
<b>Tour 2</b>	City of Calgary Glenmore WTP, High Lift Pump Station	
<b>12:00 - 1:00</b>	<b><i>Lunch</i></b> - provided by <b>CWWA</b>	