

**WCW 2009 Conference
Water Program**

Title	Author	Company	Grouping
Customer Level of Service measures for water & wastewater assets along with the corresponding Asset Levels of Service and Operational Performance Measures	Gareth Lifton	CH2MHill	Asset Management
Hamilton's Buried Infrastructure Management Framework: Managing Risk through Analysis and Standardization	Ross Homeniuk	AECOM	Asset Management
Implementing an Integrated Approach to Water Main Asset Management in Winnipeg, Canada	Ross Homeniuk	AECOM	Asset Management
Condition Assessment of A Critical PCCP Water Transmission Main in Hamilton, Ontario	Marshall Gibbons	AECOM	Asset Management
Asset Management: East Side Pump Station	Derek Trischuk	Associated Engineering	Asset Management
How Thick are Our Pipes and Do They Leak? A New Survey Method to Non-Destructively Assess Pipe Wall Condition and Water Distribution System Leakage	Marc Bracken	Echologics Engineering	Asset Management
Optimization of Baffle Wall Configurations In Potable Water Reservoirs Using CFD Techniques	Jeffrey Berg	Stantec Consulting	Computational Fluid Dyanamic Modeling
Applications of CFD for the Optimization of WTP Design	Zirui Yu	AECOM	Computational Fluid Dyanamic Modeling
Prince Albert Reservoir Upgraded to Improve Mixing and CT Using Computational Fluid Dynamics	Bob Hawboldt	Associated Engineering	Computational Fluid Dyanamic Modeling
Developing an EMS for a Large Water Supply System	Susan Spruston	AECOM	Conservation
Thermal Evaluation of Water Distribution Systems	Kirby McRae	AECOM	Conservation
Energy Recovery in Water Systems	Sean Bolongaro	Associated Engineering	Conservation
Backflow Testing	Dean Wigmore	Red Deer College	Cross Connection Control
Cross Connection Control Awareness	Dan Larson	Red River College	Cross Connection Control
Implementing a Cross Connection Program for Your Community	Gary Coons	ATAP Infrastructure	Cross Connection Control
Premise Isolation - City of Winnipeg Backflow Prevention Program	Renee Grosselle	City of Winnipeg	Cross Connection Control
On the Use of Chlorine Dioxide for Potable Water Disinfection in Western Canada	Justin Rak-Barville	University of Manitoba	Disinfection
Ammonia Friend or Foe	Michael Gundry	AECOM	Disinfection
Implementation of Practical Disinfection Tools at WTPs in Ontario Including Four Different On-line CT SCADA Models	Brian Sahely	AECOM	Disinfection
Relocation of the GWWD Branch Aqueduct System Across the Red River Floodway, Winnipeg, MB	M. G. McDonald	AECOM	Distribution Systems
Steel Watermain Rehabilitation in Victoria	George Bontus	Insituform	Distribution Systems
Fusible PVC in Municipal Applications	Jeff Phillips	IPEX Inc.	Distribution Systems

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Health and Utilities - Working Together to Prevent Waterborne Outbreaks	Nelson Fok	Environmental Public Health Alberta Health Services - Edmonton	Government Affairs
Lead Corrosion Control in Portage La Prairie	Arman Vahedi	University of Manitoba	Lead Control
Lead in Tap Water - Recent Learnings and Challenges	Mei Chen	City of Calgary	Lead Control
Reducing Lead at the Tap in Edmonton	Steve Craik	EPCOR Water Services	Lead Control
Water Loss Levels form Transmission Mains In Urban Environments	Anis Somani	The Pressure Pipe Inspection Company	Leak Detection
Expanding (or Starting) Your Leak Detection	Chris Huston	City of Calgary	Leak Detection
Reverse Osmosis for Iron and Manganese Removal	Darin Schindel	Associated Engineering	Membrane Treatment Systems
Whitecourt Water Treatment Plant Upgrades	Brad Webb	Stantec	Membrane Treatment Systems
Pembina Valley Water Cooperative Morris Regional Water Treatment Plant Upgrade	Jeff O'Driscoll	Genivar	Membrane Treatment Systems
Predicting the Settling Velocity of Floccs Using the Fractal Dimensions	Arman Vahedi	University of Manitoba	Hydraulic Modeling
Development of a Calibration Tool for Water Distribution Models	Kirby McRae	AECOM	Hydraulic Modeling
Flow Paths through UV Reactors at the Deacon Booster Pumping Station, Winnipeg, MB	Eymond Toupin	AECOM	Hydraulic Modeling
Doing More with SCADA! How Leveraging Technology Boosts Efficiencies At a Small Vancouver Island Community	Victor Wong	Dayton & Knight Ltd.	Security and SCADA
Online Biological Contaminant Detection System	Greg O'Brian	JMAR Technologies	Security and SCADA
Optimization of Coagulation and Softening Process for Removal of Dissolved Organic Carbon	Steven Cho	University of Manitoba	Water Treatment Plants
Town of Broadview, SK, Water Supply and Treatment Improvements	Sean Bayer	McDonald & Associates	Water Treatment Plants
The Emerging Trend in Deep Bed Granular Media Design	David Hambley	AWI	Water Treatment Plants
115 ML/d High Rate Dissolved Air Flotation Retrofit	Brett deWynter	AECOM	Water Treatment Plants
City of Winnipeg Water Treatment	Till Freihammer	AECOM	Water Treatment Plants
An Integrated pH Suppression System Design with Minimal Real Estate	Michael Jin	Associated Engineering	Water Treatment Plants
The Shirley McClellan Regional Water System	Stephan Weninger	Stantec	Water Treatment Plants