

**WCW 2009 Conference
Wastewater Program**

Title	Author	Company	Grouping
Risk, the Hidden Flaw in Your Infrastructure	Ian Rose-Innes	Dayton & Knight Ltd.	Asset Management
Sustainable Assets / Vibrant Communities: Asset Management Demystified for the Small Community	Mike Huard	AECOM	Asset Management
Connecting CMMS IT Systems and Mobile Operators to Water & Wastewater SCADA Systems	Marty Bince	Wonderware PacWest	Automation / SCADA
Beneficial Effluent Re-use in Waterton Lakes National Park	Anita Selinger	Associated Engineering	Effluent Reuse
Removal Mechanism of Estrogens in a Membrane Bioreactor with Powdered Activated Carbon Dosing	Wenbo Yang	Univerity of Manitoba	Emerging Issues & Technology
Sampling Protocol and Analysis of Micro-constituents: Lessons Learned	Mei Chen	City of Calgary	Emerging Issues & Technology
Design & Implementation of ZeeWeed®-MBR Retrofits	Jake Goldstein	GE Water & Process Technologies	Membrane Bioreactors
Dynamic Simulation is Necessary to Understand Differences in Design of Biological Nutrient Removal MBR Processes	Jeff Peeters	GE Water & Process Technologies	Membrane Bioreactors
Long-term Operation of Membrane Biofilm Reactors for Nitrogen Removal with Autotrophic Bacteria	Jong Hyuk Hwang	University of Manitoba	Membrane Bioreactors
Ultrasound Treatment Improves the Performance of a Membrane Biofilm Reactor for Tertiary Hydrogen-Driven Denitrification of Municipal Wastewater	Dr. Dominika Celmer	University of Manitoba	Membrane Bioreactors
Application of IFAS to Achieve Biological Nutrient Removal at the City of Winnipeg's South End Water Pollution Control Centre (SEWPCC)	Dr. Saibal Basu	Stantec Consulting Ltd.	Nutrient Management
City of Winnipeg NEWPCC Centrate Nitrogen Removal Plant	Simon Baker	AECOM	Nutrient Management
City of Winnipeg WEWPCC Biological Nutrient Removal Upgrade	Colin Allingham	City of Winnipeg	Nutrient Management
Effect of Freeze-Thaw Treatment on Nutrient Release from Different Types of Sludge	Qiuyan Yuan	University of Manitoba	Nutrient Management
Feasibility of Restored Wetlands versus Source Reduction to Reduce	Joe Ackerman	University of Manitoba	Nutrient Management
Full Scale Evaluation of External Carbon Sources in Denitrification of Mixed Industrial and Municipal Wastewater	Dr. Yoomin Lee	AECOM	Nutrient Management
Global Nitrogen Management - The Role of Wastewater Management and Urine Separation as Mitigation Strategies	Dean Shiskowski	Associated Engineering	Nutrient Management
Natural Wetlands for Nutrient Removal and Bioenergy Production - Can Harvesting Cattails Effectively Remove Stored Nutrients from the Watershed?	Richard Grosshans	University of Manitoba	Nutrient Management
Optimization of Plant-Wide Ammonia Reduction at Winnipeg's North End Water Pollution Control Centre (NEWPCC) by Means of Bioaugmentation	Nicholas Szoke	City of Winnipeg	Nutrient Management
Struvite Precipitation as a Method for Removing Phosphorus from Anaerobically Digested Swine Wastewater: The Effects of Mg:P Ratio, pH and Time	Elsie Jordaan	University of Manitoba	Nutrient Management
Taber WWTP BNR Upgrade - Design Build Challenges	Mary Lifton	Stantec Consulting	Nutrient Management

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Two Ways to Achieve Completely Autotrophic Ammonium Removal from Reject Water: Partial Nitrification and Deammonification in One Reactor or in Two Reactors System	Lukasz Jaroszynski	University of Manitoba	Nutrient Management
Human Health Risk Assessments of a Treated Municipal Wastewater Discharge in Alberta	Dr. Gordon Brown	Intrinsic Environmental Sciences Inc.	Regulatory & Environmental Issues
Cold Climate Lagoon Based Ammonia and Total Phosphorus Removal: Two Manitoba Case Studies	Martin Hildebrand	Nelson Environmental Inc.	Rural / Northern / Remote Issues
Infrastructure Serving Dawson City, Yukon – The New Klondike Gold	Ken Johnson	AECOM	Rural / Northern / Remote Issues
Sewage Composting in Iqaluit, Nunavut – Black Gold	Ken Johnson	AECOM	Rural / Northern / Remote Issues
Town of Altona Wastewater Treatment Lagoon Upgrade	Ross Webster	GENIVAR	Rural / Northern / Remote Issues
Analysis and Recommendations for Dual Drainage System Improvements: City of Dryden Swanson Street	Greg Karman	AECOM	Stormwater Management
Examples in Stormwater Infiltration, Detention, and Retention using Rain Tank Systems	Stuart Whitting	Emco Corporation	Stormwater Management
Hyde Creek Storm Sewer Diversion - If You Build It They Will Come	Scott Neuman	AECOM	Stormwater Management
Lendrum Place Dual-Use Dry Pond	Owen Kristel	Stantec Consulting Ltd.	Stormwater Management
Gated Cross Correlation Velocity - A Breakthrough Technology for Wastewater Flow Measurement	Patrick Stevens	ADS Environmental Services	Wastewater Collection
Integration of Condition Assessment and other Data into a Hydraulic Modeling Environment, Winnipeg, MB	Chris Macey	AECOM	Wastewater Collection
Malabar Collection System Design – Fundamental and Automation Challenges	Jonathan Zhu	AECOM	Wastewater Collection
Modeling, Designing and Constructing an Off-Line Wastewater Storage Facility to Provide Basement Flooding Relief in Saskatoon, SK	Eymond Toupin	AECOM	Wastewater Collection
Sewer Sociology - The Days of Our (Sewer) Lives	Patrick Stevens	ADS Environmental Services	Wastewater Collection
Southeast Sector Wastewater Pumping Station and Wet Weather Storage	Greg Schmidt	Associated Engineering	Wastewater Collection
Investigating the Performance of a Rectangular Secondary Clarifier	Saifuddin Molla	University of Alberta	Wastewater Treatment
Investigating the Performance of an Aerated Grit Chamber	Afsana Habib	University of Alberta	Wastewater Treatment
Management of Leachate in the City of Winnipeg	Stanislaw Lozecznik	University of Manitoba	Wastewater Treatment
Methanogenic Degradation of Leachate from Brady Road Landfill	Stanislaw Lozecznik	University of Manitoba	Wastewater Treatment
Mixed Liquor Vacuum Degassing Technology for Intensification of BNR Treatment Process	Matthew Maciejewski	CH2M HILL Canada	Wastewater Treatment
Partnering with Private Industry to Provide Wastewater Treatment in the City of Brandon	Patrick Pulak	City of Brandon	Wastewater Treatment
Review of Wet Weather Flow Treatment Options for Winnipeg's North End Water Pollution Control Centre (NEWPCC)	Nicholas Szoke	City of Winnipeg	Wastewater Treatment
Uptake of Oil from Water Using Fungal Biomass	Asha Srinivasan	University of Regina	Wastewater Treatment