



MAY 7-8

Pre-Courses May 6

Richmond/Vancouver, BC

CANADA

Go Trenchless GO Green

Save \$200
register by March 29

2 EASY WAYS TO REGISTER:

1. Online: trenchlessroadshow.ca
2. Email: alice.seviora@uwaterloo.ca
Call: 519-888-4770

**WESTERN MUNICIPALITY
SHOW SPECIAL**

Register by 3/1/19 and get a second municipal full conference registration for free.

Includes complimentary access for each registrant to the pre-courses.

**MON. MAY 6, 2019
PRE-COURSES**

8:30 AM - 4:30 PM

Introduction - Trenchless Construction Methods

Microtunnelling Construction Means, Methods, and Design

Culverts Renovation and Replacement Using Trenchless Solutions

Utility Construction Damage Prevention and Risk Mitigation

1:00 PM - 4:30 PM

Manhole Deterioration and Renovation

TUES. MAY 7, 2019

**SESSION 1:
Successful HDD Projects**

8:00 AM - 8:30 AM

Mitigating Inadvertent Returns Through Proper Bore Planning and Minimizing Down Mud Pressure Through HDD Best Practices

8:30 AM - 9:00 AM

Reclaiming and Solidifying: Managing the Rising Costs of Fluid Disposal

9:00 AM - 9:30 AM

Slave Lake Raw Water Intake

10:00 AM - 10:30 AM

Reducing the Risk of Cross Bores

10:30 AM - 11:00 AM

Horizontal Directional Drilling

**SESSION 2:
Water and Sewer Inspection**

8:00 AM - 8:30 AM

Results from the City of Roseville,

California's 3-Year \$4.5 Million Post-CIPP Investigation

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Proactively Removing HS - Prevent Odour Complaints and Corrosion Within Underground Structures

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Enhanced Inspection and Condition Assessment - Evaluate the Rate of Corrosion of the Primary Trunk

10:00 AM - 10:30 AM

Objective Decision Making Using Multi-Sensor Internal Diameter Measurements

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Novel Laser Profiler With Inertial Sensors for Diameter, Ovality and Inclination Measurements

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Trenchless Project
Planning and Design**

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Federal Regulatory Update "Damage Prevention Implications of Bill C-69 and the Proposed Canadian Energy Regulator Act

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Use of Utility Engineering During Large Scale Projects Assisting Design Not Change Orders

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Geospatially Correct SUE

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WWTP Yard Piping and Structure Inspection and Condition Assessment and Use Work at Annacis Island as a Case Study

10:30 AM - 11:00 AM

I&I Reduction Using Grouting

11:15 AM - 2:00 PM

EXHIBIT HALL AND DEMOS

**SESSION 4:
New Pipe Construction
Using Microtunnelling**

2:00 PM - 2:30 PM

Slurry Mixshield Technology: Ideal for Mechanized Cross Passage Construction in Formations with High Groundwater Table

2:30 PM - 3:00 PM

2.8 KM of Multiply Curved Microtunnels Below Road and Railways, Around Sheetpiles and Tiebacks

3:00 PM - 3:30 PM

Advancements in Slurry Microtunneling for Long Distance and Curved Tunnels

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West Gormley Sanitary Sewer - Unlocking Land

4:00 PM - 4:30 PM

Constructing the South Surrey Interceptor Trenchless Segment

4:30 PM - 5:00 PM

Microtunnelling

**SESSION 5:
Sewer Pipe Renovation**

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Advances in CIPP UV Liners for Felt Based Gravity and Pressure Pipe Systems

2:30 PM - 3:00 PM

CIPP Success for Hespeler Trunk Sanitary Sewer

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Trenchless Rehabilitation of the Humber Sanitary Trunk Sewer

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500-Year Extension of Sewer Line Life Using Fiberglass Pipe Slipliner

4:00 PM - 4:30 PM

How Successful is My Pipe Bursting Project?

4:30 PM - 5:00 PM

Pipe Bursting Maple Ridge

**SESSION 6:
Pressure Pipe Considerations**

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AWWA White Paper

2:30 PM - 3:00 PM

CIPP Pressure Burst Test Surprising Findings

3:00 PM - 3:30 PM

Importance of Service Connections and End Seals for Watermain Renovation

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Trenchless Relining of a Large Water Main Bridge Crossing

4:30 PM - 5:00 PM

Large Diameter Watermain Rehabilitation

WED. MAY 8, 2019

**SESSION 7:
Large Diameter Stormwater
Pipe Renovation**

8:00 AM - 8:30 AM

Culvert Rehabilitation Procurement and Design

8:30 AM - 9:00 AM

Grouting Culverts - Stop Infiltration

9:00 AM - 9:30 AM

Case Study City of Richmond Culvert Stabilization/Grouting

10:00 AM - 10:30 AM

Working Beyond ASTM F1216: Surface Loading and Structural Response of a Corrugated Steel Ellipse Rehabilitated Using CIPP Liner

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Large Diameter Sewer and Stormwater Repairs with Spray-Applied Geopolymer Lining in North America

**SESSION 8:
Pipe Line Asset
Management/Inspection**

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Utilizing Underwater Remote Technologies for Municipal Inspections

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Large Diameter Watermain Rehabilitation

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Forgotten Laterals
and Manholes**

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A Qualitative Approach - Determine the Areas of Highest Inflow and Infiltration in Sewer Lines for Urban Areas

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Sealing the Collection System: A Focus on Main-to-Lateral Rehabilitation

10:00 AM - 10:30 AM

Manhole Inspection

10:30 AM - 11:00 AM

Resistance of Sprayed Maintenance Hole Liners - External Water Pressure

11:00 AM - 1:15 PM
EXHIBIT HALL AND DEMOS

1:15 PM - 2:00 PM

KEYNOTE PRESENTATION

**SESSION 10:
How - Make Capital Budgets
Do More**

2:15 PM - 2:45 PM

A New Approach - Small Diameter Watermain Rehabilitation

2:45 PM - 3:15 PM

Pipeline Asset Management Using System Dynamics

3:30 PM - 5:00 PM

PANEL DISCUSSION 1:

Building Programs vs. Projects - Generate Cost Savings

**SESSION 11:
How - Reduce Your
Construction Costs**

2:15 PM - 2:45 PM

Risk Based Trenchless Alternatives Evaluations Using Sustainable Return on Investment

2:45 PM - 3:15 PM

Subsurface Utility Engineering and Project Cost Savings

3:30 PM - 5:00 PM

PANEL DISCUSSION 2:

How - Save on Tender Bid Prices

GOLD SPONSOR:



SILVER SPONSOR:



PRESENTED BY:



SPONSORSHIP INQUIRIES
contact: bcline@benjaminmedia.com
or 330.467.7588

MON. MAY 6

8:30 AM to 4:30 PM

Introduction to Trenchless Construction Methods

Microtunnelling Construction Means, Methods, and Design

Culverts Renovation and Replacement Using Trenchless Solutions

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Christine Smith; Tod Michael; Cory Mass | Vermeer Corporation

8:30 AM to 9:00 AM

Reclaiming and Solidifying: Managing the Rising Costs of Fluid Disposal

Christine Smith; Adam Bates; Lee Schroeder | Vermeer Corporation

9:00 AM to 9:30 AM

Slave Lake Raw Water Intake

Chris Lamont; Jason Lueke; Chad Maki; Doug Baird; Chris Parfitt | Associated Engineering

10:00 AM to 10:30 AM

Reducing the Risk of Cross Bores

Christine Smith; Lee Schroeder; Jake Jeffords | Vermeer Corporation

10:30 AM to 11:00 AM

Horizontal Directional Drilling

Kyle Verwey | EarthBoring

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Water and Sewer Inspection**

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Results from the City of Roseville, California's 3-Year \$4.5 Million Post-CIPP Investigation

Chuck Hansen | Electro Scan Inc.

8:30 AM to 9:00 AM

Proactively Removing H S to Prevent Odour Complaints and Corrosion within Underground Structures

Dan Leger | Mar-Tech Underground Services LTD

9:00 AM to 9:30 AM

Enhanced Inspection and Condition Assessment to Evaluate the Rate of Corrosion of the Primary Trunk.

Jayne Harris | Jacobs

10:00 AM to 10:30 AM

Objective Decision Making Using Multi-Sensor Internal Diameter Measurements

Csaba Ekes | SewerVUE Technology Corp.

10:30 AM to 11:00 AM

Novel Laser Profiler with Inertial Sensors for Diameter, Ovality and Inclination Measurements

Daniel Lefebvre | INO

**Session 3:
Trenchless Project Planning and Design**

8:00 AM to 8:30 AM

Federal Regulatory Update "Damage Prevention implications of Bill C-69 and the Proposed Canadian Energy Regulator Act

Shannon Neufeld | National Energy Board

8:30 AM to 9:00 AM

Use of Utility Engineering During Large Scale Projects Assisting Design Not Change Orders

Ophir Wainer | T2 Utility Engineers

9:00 AM to 9:30 AM

Geospatially Correct SUE

Stephan MacAulay | Global Raymac Surveys Inc.

10:00 AM to 10:30 AM

WWTP Yard Piping and Structure Inspection and Condition Assessment and Use Work at Annacis Island as a Case Study

Gary Skipper | Brown and Caldwell

10:30 AM to 11:00 AM

I&I Reduction Using Grouting

Ron Weismiller | City of Burnaby

11:15 AM to 2:00 PM

Exhibit Hall and Demos

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New Pipe Construction Using Microtunnelling**

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Slurry Mixshield Technology: Ideal for Mechanized Cross Passage Construction in Formations with High Groundwater Table

Dr. Gerhard Lang | Herrenknecht AG

2:30 PM to 3:00 PM

2.8 Km of Multiply Curved Microtunnels Below Road and Railways, Around Sheetpiles and Tiebacks

Cyrrill Althuser | Jackcontrol AG

3:00 PM to 3:30 PM

Advancements in Slurry Microtunneling for Long Distance and Curved Tunnels

Chris Sivesind | Akkerman

3:30 PM to 4:00 PM

West Gormley Sanitary Sewer - Unlocking Land

Ian McKee | The Municipal Infrastructure Group Ltd.

4:00 PM to 4:30 PM

Constructing the South Surrey Interceptor Trenchless Segment

Joel Shimozawa; Brian Fahy | The Langley Concrete Group

4:30 PM to 5:00 PM

Microtunneling

Kyle Verwey | EarthBoring

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Abu Abraham | AEGION

2:30 PM to 3:00 PM

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Bradley Marin; Bradley Marin; Aaron Bruce | GHD Ltd

3:00 PM to 3:30 PM

Trenchless Rehabilitation of the Humber Sanitary Trunk Sewer

Jayne Harris | Jacobs

3:30 PM to 4:00 PM

500 Year Extension of Sewer Line Life using Fiberglass Pipe Slipliner

Bijan Khamanian; Michael Rocco | Hobas Pipe USA

4:00 PM to 4:30 PM

How Successful is My Pipe Bursting Project?

Parastou Hooshalsadat | GHD Inc.

4:30 PM to 5:00 PM

Pipe Bursting Maple Ridge

David O'Sullivan | PW Trenchless

**Session 6:
Pressure Pipe Considerations**

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AWWA White Paper

Chris Macey | AECOM

2:30 PM to 3:00 PM

CIPP pressure Burst Test Surprising Findings

Mark Knight | University of Waterloo/ CATT

3:00 PM to 3:30 PM

Importance of Service Connections and End Seals for Watermain Renovation

George Bontus | AEGION

3:30 PM to 4:00 PM

Cleaning of A Pressure Main - Avoid the Pitfalls

Joe Schotthoefer | Doetsch Environmental Services

4:00 PM to 4:30 PM

Trenchless Relining of a large Water Main Bridge Crossing

Alois Multerer; Andreas Fleischmann | Raedlinger Primus Line

4:30 PM to 5:00 PM

Large Diameter Watermain Rehabilitation

David O'Sullivan | PW Trenchless Const Inc.

WED. MAY 7

**Session 7:
Large Diameter StormWater Pipe Renovation**

8:00 AM to 8:30 AM

Culvert rehabilitation procurement and design

David O'Sullivan; David O'Sullivan; Greg Decan | P W Trenchless Const Inc

8:30 AM to 9:00 AM

Grouting Culverts to Stop Infiltration

Marek Pawloski; Mark Knight | MJP Consultants/University of Waterloo

9:00 AM to 9:30 AM

Case Study City of Richmond Culvert stabilization/grouting

David O'Sullivan | P W Trenchless Const Inc

10:00 AM to 10:30 AM

Working Beyond ASTM F1216: Surface Loading and Structural Response of a Corrugated Steel Ellipse Rehabilitated Using CIPP Liner

Robert Cichocki; Ian Moore | Queen's University

10:30 AM to 11:00 AM

Large Diameter Sewer and Stormwater Repairs with Spray-Applied Geopolymer Lining in North America

Joe Royer | Milliken Infrastructure Solutions, LLC

**Session 8:
Pipe Line Asset Management/Inspection**

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Utilizing Underwater Remote Technologies for Municipal Inspections

Richard Engel | ASI Marine

8:30 AM to 9:00 AM

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Csaba Ekes | SewerVUE Technology Corp

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North Cowichan Water Main Leak Survey Case Study

Justin Hebner | Pure Technologies Ltd.

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Jung | Virginia Military Institute

8:30 AM to 9:00 AM

Dealing with Service Laterals - the "Ugly Duckling" of Municipal Utility CIPP Lining

Mike Brady; Peter Kelly; Sean Elliott; Eric Leydon; Matt, Witchard | AECOM Canada Ltd.

9:00 AM to 9:30 AM

Sealing the Collection System: With a Focus on Main-to-Lateral Rehabilitation

Josh Gass | LMK Technologies

10:00 AM to 10:30 AM

Manhole Inspection

Jesse Doolin | MJP Consultants

10:30 AM to 11:00 AM

Resistance of Sprayed Maintenance Hole Liners to External Water Pressure

Josh Treitz; Ian Moore; Neil Hoult | Queen's University

11:00AM to 1:15PM

Exhibit Hall and Demos

1:15 to 2:00pm

Keynote Presentation

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How to Make Capitial Budgets Do More**

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A New Approach to Small Diameter Watermain Rehabilitation

William Jappy; Stephane Joseph | Envirologics

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Pipeline Asset Management Using System Dynamics Amin Ganjidoost, Craig Daly | Pure Technologies, a Xylem brand

3:30 PM to 5:00 PM

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Risk Based Trenchless Alternatives Evaluations Using Sustainable Return on Investment (SROI)

Mathew Francis; Andrea Bohmholdt; Trent Hughes | AECOM

2:45 PM to 3:15 PM

Subsurface Utility Engineering and Project Cost Savings

Rizwan Younis | CATT/University of Waterloo

3:30 PM to 5:00 PM

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