

**Time**

- 7:00am Registration
- 7:00am Continental Breakfast
- 7:30am Keynote Speaker — Dr. Samuel Ariaratnam, Professor, Arizona State University

**Morning Sessions**

**Session 1: New Products/New Technology**

- 8:30 Long-Term Microbiological Induced Corrosion (MIC) Protection For Sewer Systems | Moosa Damerchie, ConShield Technologies Inc
- 8:50 Tight-In-Pipe Small Diameter Pipe Renewal System | Andrew Potter, IPEX Inc
- 9:10 Fusible PVC Pipe in Municipal Infrastructures | Louis-Philippe Dubé , IPEX Inc
- 9:30 Live PPCP Inspection Using a Free-Swimming Tool | William Jappy, Pressure Pipe Inspection Co.
- 9:50 **Networking Break**
- 10:05 Novel Trenchless Application for Critical Grade Municipal Distribution | Dr. Samuel Ariaratnam, Arizona State University
- 10:25 Trenchless Lateral Renewal Technologies – Lessons to be learned | Andy Sherwin, LMK

**Session 2: Inspection Tools and Sub-Surface Utility Location & Mapping**

- 8:30 Towards Precise Underground Mapping System in Canada | Mike Ghassemi, Hamid Javadi, Derek Zoldy, AECOM
- 8:50 SMART(SM) SUE Services - How to Optimize the Advantages of Subsurface Investigations on Capital Projects | Jeremy Cook, Terra Discovery Ltd.
- 9:10 Underground Mapping: Adding Value to Trenchless Technology Projects | John Scaife, multiVIEW Locates Inc.
- 9:30 The ORCGA “Changing the Face of Underground Infrastructure Damage Prevention in Ontario” | Jim Douglas, ORCGA
- 9:50 **Networking Break**
- 10:05 Subsurface Utility Engineering – How to Scope a SUE Study | Lawrence Arcand, TSH/TBE Subsurface Utility Engineers JV
- 10:25 Utility Locating and Mapping with GPR | Ron Lester, Sensors & Software

**11:00 Lunch, Exhibit Hall Open, Live Technical Sessions**

**Afternoon Sessions**

**Session 3: Asset Management**

- 2:15 What You Can Not See Could Hurt You - The Management of Critical Pipe | Michael Zantingh, City of Hamilton
- 2:40 Putting Condition Assessment Reports To Work: City of London’s Trunk Sewer Management Program | Mark Andrews & Ashley Rammeloo, City of London
- 3:05 Pipeline Deterioration Models | Rizwan Younis, University of Waterloo
- 3:30 A New and Novel Approach to Water and Wastewater Buried Infrastructure AM | Rashid Rehan, University of Waterloo
- 3:55 **Networking Break**
- 4:05 Overview of CSA Municipal Infrastructure Implementation Tools | Kevin Bainbridge, City of Hamilton
- 4:30 Determining Operational Vulnerabilities in Regina and Saskatoon’s Gravity Wastewater Sewer Systems | David Enns, AECOM
- 4:55 A New Approach to Sustainable Buried Infrastructure Asset Management | Dr. Mark Knight, University of Waterloo

**Session 4: Trenchless Construction**

- 2:15 Effect of Mud-Pressures and Construction Timing on Success of Directional Drilling Projects | Dr. Ian Moore, Geo Engineering Centre, Queen’s University
- 2:40 Designing HDD Projects Using BOREAID | Dr. Alireza Bayat, University of Alberta
- 3:05 Microtunneling | Walter Trisi, Lovat Inc.
- 3:30 Rideau Canal Watermain Installation by Horizontal Directional Drilling (HDD) | Jonathan Knoyle, R. V. Anderson Associates Limited
- 3:55 **Networking Break**
- 4:05 Construction of Leachate Collection Wells in Municipal Solid Waste Using a Directional Drill | Dr. Mark Knight, University of Waterloo
- 4:30 Design Considerations for Successful On Grade & Technically Complex HDD Installations | Gene Woodbridge, Earth Boring Co. Ltd.
- 4:55 Analysis of Design - When You Should Consider Pipe Ram Over Traditional Jack & Bore | Gene Woodbridge, Earth Boring Co. Ltd.

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**Morning Sessions**

**Session 5: Condition Assessment**

8:00 Acoustic Methods for Determining Remaining Pipe Wall Thickness In Asbestos Cement and Ferrous Pipes | Marc Bracken, David Johnston, Echologics Engineering Inc.

8:25 Condition Assessment of In-Service Ferrous Mains | Kevin Laven, Pressure Pipe Inspection Co.

8:50 Making Dreams Come True in Sewer Pipe Inspections | Philip Jones, RedZone Robotics, Inc

9:15 Completing Pipe Assessments with Pipe Penetrating Radar |Gord Henrich, SewerVUE

9:40 **Networking Break**

9:55 Sanitary Sewer Inflow/Infiltration Study - Baden and New Hamburg | Gabriel Wong, Conestoga- Rovers & Associates

10:20 Visual Sidewall Scanning: Streamlining Collection & Analysis of Inspection Data | Mike Russin, Envirosight, LLC

**Session 6: Emerging Industry Trends**

8:00 Large Diameter Pipe Specifications | Harry Krinas, City of Hamilton

8:25 Lateral Rehabilitation with Chemical Grout Doing it well, Doing it right | Marc Anctil, Logiball Inc

8:50 Manhole Rehabilitation | Martin Samson, Sauereisen

9:15 Insituform: Next Generation CIPP Watermain Renovation | George Bontus, Insituform Technologies Inc.

9:40 **Networking Break**

9:55 Cross Bore Prevention – A Canadian Utility Perspective | Jason Samara/Clifford Clark, Enbridge Gas Distribution Ltd.

10:20 TBD

**11:00 Lunch, Exhibit Hall Open, Live Technical Sessions**

**Afternoon Sessions**

**Session 7: Case Studies Rehab**

2:15 City of Ottawa Structural Lining Program - Case Study: Lakeview Park CIPP Watermain Lining | George Blow, Robinson Consultants

2:40 A Practical Approach to the Inspection and Rehabilitation of a Deep, High Flowing Large Diameter Sewer | David Crowder, RV Anderson Associates Limited

3:05 Watermain Structural Rehabilitation Case Study | Stephane Joseph, Acuro Inc.

3:30 **Networking Break**

3:45 Encouraging Creativity via RFPs |Ashley Rammeloo, City of London and Jim Breschuk , Dillon Consulting

4:10 Panel Lining of a 100-year old Egg Shaped Brick Trunk Sewer | Erika Waite, Jeff Derek (City of Hamilton), Derek Potvin (Robinsons Consultants), City of Hamilton/Robinsons Consultants

4:35 Trenchless Emergency Pipeline Repairs Utilizing CFRP | Anis Somani, Fbrwrap Construction Inc.

**Session 8: Case Studies New Installations**

2:15 Southwest Rapid Transit Corridor Phase I - Land Drainage Sewer Installation Using Trenchless Methods | Shane Cooper, Dillon Consulting Ltd

2:40 Hand Tunneling: Endangered But Not Extinct | Brad Marin, Conestoga-Rovers & Associates Ltd.

3:05 Pre-conditioning/Pre-excavation Grouting of Soils Prior to Tunnelling Below Highways and Railways | Alex Naudts, Eco Grouting Specialists Ltd

3:30 **Networking Break**

3:45 The 19th Avenue YDSS Interceptor Sewer Project | Frank Badinski, Region of York

4:10 Three Different Tunnels For PEEL Diverson Sewer | Tony Mellegers, AECOM

4:35 HDD River Crossing Relocation of a 750mm Diameter Watermain in Moncton New Brunswick | Dr. Mark Knight, University of Waterloo