

# Municipal Construction of Sewers and Watermains Using Microtunneling

PRESENTED BY: **CENTRE FOR ADVANCEMENT OF TRENCHLESS TECHNOLOGIES (CATT)**



**Thursday February 21, 2019**

**8:00AM - 4:15PM**

**BREAKFAST, LUNCH AND REFRESHMENTS  
INCLUDED**

MISSISSAUGA GRAND  
35 Brunel Road, Mississauga

**Also available via Live  
Webcast!**

## WORKSHOP OVERVIEW

This one-day workshop will focus on the construction of municipal sewers and watermains using the Microtunnelling trenchless construction method. Over the past several years Ontario has grown from not using Microtunnelling to becoming a leader in North America for complex and challenging projects that include curved installations, and sea and lake outfalls. Microtunnelling construction benefits include: reduced risk during construction, large greenhouse gas emission savings, rapid out-of-sight and out-of-mind construction, and significant reduction in social and environmental costs.

Attendees will learn from leading international and national industry experts on state-of-the-art construction equipment, processes, design, construction risk mitigation, and quality control and quality assurance. In addition, local case studies will be presented to demonstrate how successful on-time and on-budget projects can be constructed locally. This is a workshop you will not want to miss and is held only once a year.

## Schedule\*

8:00 - 8:05 | **INTRODUCTION**

8:05 - 10:15 | **MICROTUNNELING PROCESS AND EQUIPMENT**  
*Gerhard Lang, Herrenknecht AG*

10:15 - 10:30 | Networking Break

10:30 - 10:50 | **JACKING PIPE DESIGN AND MANUFACTURING**  
*David Archer, Decast Ltd.*

10:50 - 11:10 | **FIBREGLASS JACKING PIPE**  
*Vince Paparozzi, Hobas Pipe USA*

11:10 - 11:40 | **GUIDANCE CONTROL AND DATA MANAGEMENT SYSTEMS**  
*Matthias Knoll, VMT USA*

11:40 - 12:10 | **DRILL FLUIDS FOR SUCCESS**  
*Mark Knight, University of Waterloo*

12:00 - 13:00 | Lunch

13:00 - 13:45 | **MICROTUNNELLING PROJECT PLANNING AND DESIGN  
CONSIDERATIONS**  
*Marc Gelinias, Hatch*

13:45 - 14:30 | **GEOTECHNICAL INVESTIGATION AND RISK MANAGEMENT**  
*Masoud Manzari, Thurber Engineering*

14:30 - 14:45 | Networking Break

14:45 - 15:15 | **CASE STUDY 1**  
*Gene Woodbridge, Earth Boring*

15:15 - 15:45 | **CASE STUDY 2**  
*Walter Trisi, CRS Tunneling*

15:45 - 16:15 | **CASE STUDY 3- SHANGHAI FORCEMAIN- FAILURE TO  
SUCCESS**  
*Mark Knight, University of Waterloo*

\* Subject to modifications

## Who Should Attend?

Consulting Engineers, Designers, Municipal Employees, Contractors, Field Technicians, Suppliers, etc. with An Interest In Municipal Pipelines and whom wants to keep abreast of Emerging Industry Trends.

## Included

- Course Material
- Breakfast, Lunch, and Refreshment during Networking Breaks
- 0.7 CEUs

UNIVERSITY OF  
**WATERLOO**

# Registration Form

## Municipal Construction of Sewers and Watermains Using Microtunneling

Thursday February 21, 2019, Mississauga Grand, Mississauga

### UPCOMING CATT EVENTS

SIPP (SPRAY-IN-PLACE-PIPE)  
MAR-20

EMERGING TRENCHLESS TECHNOLOGIES  
APR-10

CURED-IN-PLACE-PIPE (CIPP) FOR  
WATERMAIN AND SEWER RENOVATION  
TBD

**NAME:** \_\_\_\_\_  
**TITLE:** \_\_\_\_\_  
**COMPANY:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
**CITY:** \_\_\_\_\_ **PROV:** \_\_\_\_\_ **POSTAL CODE:** \_\_\_\_\_  
**PHONE:** \_\_\_\_\_  
**EMAIL:** \_\_\_\_\_

### EARLY BIRD REGISTRATION

RECEIVED BY: December 14  
 \$450/CATT MEMBER  \$600/NON-MEMBER

### REGULAR REGISTRATION

RECEIVED: December 15 TO February 18  
 \$550/CATT MEMBER  \$700/NON-MEMBER

### ON-SITE REGISTRATION

RECEIVED AFTER: February 18  
 \$650/CATT MEMBER  \$800/NON-MEMBER

Tax (HST 13%) \$ \_\_\_\_\_ Total \$ \_\_\_\_\_

### LIVE WEBCAST

I would like to attend via LIVE WEBCAST

### THE CENTRE FOR ADVANCEMENT OF TRENCHLESS TECHNOLOGIES

(CATT) was established in 1994 to help municipalities address their buried infrastructure challenges using new and less disruptive trenchless construction methods and infrastructure asset management practices.

Since 1994 CATT has been recognized as an international leader in buried infrastructure construction, condition assessment, renovation and asset management.

For more information on CATT and member benefits visit [www.catt.ca](http://www.catt.ca).

### METHOD OF PAYMENT – PLEASE PICK ONE

PAY ONLINE VISIT [WWW.CATTEVENTS.CA](http://WWW.CATTEVENTS.CA) (as per UW policy, we are no longer allowed to collect any credit card information. Please register online if you wish to pay by credit card)

INVOICE COMPANY

CHEQUE (Payable to “University of Waterloo, Attn: Centre for Advancement of Trenchless Technologies”)

**COMPLETED REGISTRATION FORMS CAN BE FAXED TO (519) 746 6556 OR MAILED to Alice Seviara:**

**MAIL:** CENTRE FOR ADVANCEMENT OF TRENCHLESS TECHNOLOGIES  
Department of Civil and Environmental Engineering  
University of Waterloo, Waterloo, ON N2L 3G1  
ph 519 888 4770 f 519 746 6556 email:alice.seviara@uwaterloo.ca

**Note:** To prevent fraud never send credit card information via email.  
Refund Policy: please visit [www.catt.ca](http://www.catt.ca) for details on CATT’s refund policy.

### PLATINUM MEMBERS



### GOLD MEMBERS

