



# Microtunneling for Municipal Construction

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

February 16, 2017, Mississauga Grand,  
35 Brunel Rd, Mississauga, ON

## WORKSHOP OVERVIEW

This one-day workshop will focus on the construction of municipal pipelines 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 concrete pipelines. Microtunnelling construction benefits include: reduced risk during construction, large greenhouse gas emission savings, rapid out-of-sight and out-of-mind construction, 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.

## Program\*

8:00 – 8:15 | **INTRODUCTION**, *Mark Knight, University of Waterloo, CANADA*

8:15 – 10:15 | **MICROTUNNELLING PROCESS AND EQUIPMENT**, *Gerhard Lang, Herrenknecht AG, GERMANY*

10:15 – 10:30 | **NETWORKING BREAK**

10:30– 11:00 | **PILOT TUBE MICROTUNNELLING**. *Jason Holden, Akkerman, USA*

11:00 – 11:30 | **THE HYDRAULIC JOINT - KEY TO CURVED MICROTUNNELLING**, *Cyrrill Althuser, Jack Control, SWITZERLAND*

11:30 – 12:00 | **GUIDANCE CONTROL AND DATA MANAGEMENT SYSTEMS**, *Martin Betsch, VMT, USA*

12:00– 13:00 | **LUNCH**

13:00 – 13:30 | **DRILLING FLUID REQUIREMENTS**, *Mark Duckworth, BAROID IDP, CANADA*

13:30 – 14:00 | **KNOW YOUR SOIL/ROCK SITE CONDITIONS**, *Masoud Manzari, Thurber Engineering, CANADA*

14:00 – 14:30 | **PROJECT RISK MITIGATION AND DESIGN**, *Marc Gelinas, Hatch, CANADA*

14:30– 14:45 | **NETWORKING BREAK**

14:45 – 15:15 | **CASE STUDY 1**, *Gene Woodbridge, Earth Boring Limited, CANADA*

15:15 – 15:45 | **CASE STUDY 2**, *Walter Trisi, CRS Tunnelling, CANADA*

15:45 – 16:15 | **CASE STUDY 3**, *Vittorio Petrucco, I.CO.P. SpA, ITALY*

\* **SUBJECT TO CHANGE**

## When

**Thursday February 16, 2017**

**8:00AM - 5:00PM**

**BREAKFAST, LUNCH AND REFRESHMENTS INCLUDED**

## Where

**MISSISSAUGA GRAND  
35 BRUNEL RD, MISSISSAUGA**

**Also available via Live  
Webcast!**

## Who Should Attend?

**CONSULTING ENGINEERS, DESIGNERS, MUNICIPAL EMPLOYEES, CONTRACTORS, FIELD TECHNICIANS, SUPPLIERS, ETC. WITH AN INTEREST IN MUNICIPAL PIPELINES AND WHOM WANT TO KEEP ABREAST OF EMERGING INDUSTRY TRENDS.**

## Included

- **COURSE MATERIAL**
- **BREAKFAST, LUNCH, AND REFRESHMENT DURING NETWORKING BREAKS**
- **0.7 CEU'S**



# Microtunneling for Municipal Construction

February 16, 2017, Mississauga Grand, 35 Brunel Rd, Mississauga, ON

## UPCOMING CATT EVENTS

TRENCHLESS TECHNOLOGIES 101  
22/23-FEB-2017

WATERMAIN DEFECT CODING,  
CONDITION GRADING AND  
RENOVATION  
09-MAR-2016

FOR MORE INFORMATION GO TO:

[WWW.CATT.CA](http://WWW.CATT.CA)

## 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.

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

ATTENDEE NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

PROVINCE: \_\_\_\_\_

POSTAL CODE: \_\_\_\_\_

PHONE: \_\_\_\_\_

FAX: \_\_\_\_\_

EMAIL: \_\_\_\_\_

**EARLY BIRD REGISTRATION:** RECEIVED BY: Friday January 13, 2017

\$450/CATT MEMBER

\$600/NON-MEMBER

**REGULAR REGISTRATION:** RECEIVED: January 14 to February 12, 2017

\$550/CATT MEMBER

\$700/NON-MEMBER

**ON-SITE REGISTRATION:** RECEIVED AFTER: February 12

\$650/CATT MEMBER

\$800/NON-MEMBER

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

**I WOULD LIKE TO ATTEND VIA LIVE WEBCAST**

## METHOD OF PAYMENT - PLEASE PICK ONE

**INVOICE COMPANY**

**CREDIT CARD** (MasterCard, VISA, American Express)

CARD #:

EXP: /

NAME ON CARD:

CVC:

**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

