

Microtunnelling for Trenchless Construction Projects

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



Thursday February 6, 2014

8:00AM - 5:00PM

BREAKFAST, LUNCH AND REFRESHMENTS INCLUDED

HOLIDAY INN
Mississauga Toronto West
100 Britannia Road E
Mississauga, ON L4Z 2G1
ph (905) 890-5700

Also available via Live Webcast!

WORKSHOP OVERVIEW

This one day workshop will cover a phases of the construction of a stormwater, wastewater, forcemains, watermain, and utility pipelines using the trenchless microtunnelling construction method. Attendees will learn the state-of-the-art of this increasing popular pipeline construction method that only requires entrance and exit shafts to install the pipe on line and on grade through a wide variety of ground conditions. Microtunnelling 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. Industry experts from Canada and Europe will cover the history and development microtunnelling method with special focus on Ontario, provide an overview of microtunnelling equipment, drill fluids, mud recycling, laser control systems, shaft design, and jacking pipe. It will also discuss geotechnical and design considerations for a successful project, project Quality Assurance and Quality Control (QA/QC) considerations, and development of good project specifications.

If you are involved in or will be involved in a microtunnelling project you will not want to miss this unique workshop.

SCHEDULE

7:30 - 8:00 | **REGISTRATION & BREAKFAST**

8:00 - 8:30 | **HISTORY OF MICROTUNNELING AND PROCESS**
Seamus Tynan, Ward and Burke

8:30 - 9:00 | **MICROTUNNELLING: EQUIPMENT AND APPLICATIONS**
Gerhard Lang, Herrenknecht AG

9:00 - 10:00 **EPB, MICRO TBM TECHNOLOGY**
Gerhard Lang, Herrenknecht AG

10:00 - 10:15 | **NETWORKING BREAK**

10:15 - 11:00 | **DRILL FLUID BASICS**
Mark Duckworth, BAROID IDP

11:00 - 11:30 | **MICROTUNNELLING JACKING PIPE**
Theresa Erskine, Munro Ltd.

11:30 - 12:15 | **MTBM GUIDANCE CONTROL AND DATA MANAGEMENT SYSTEM**
Alexander Seilert, VMT.

12:15 - 13:00 | **LUNCH**

13:00 - 14:00 **GEOTECHNICAL AND DESIGN CONSIDERATIONS**
Marc Gelin, Hatch Mott MacDonald

14:00 - 15:00 | **ASCE MICROTUNNELING GUIDELINES**
Dennis Doherty, Haley & Aldrich

15:00 - 15:15 | **NETWORKING BREAK**

15:15 - 15:45 | **CASE STUDY 1**
John Currey, Earth Boring Limited

15:45 - 16:15 | **CASE STUDY 2**
Walter Trisi, CRS Tunnelling

16:15 - 17:00 | **CASE STUDY 3**
Seamus Tynan, Ward and Burke

WHO SHOULD ATTEND THE

WORKSHOP? Consulting engineers, designers, municipal employees, contractors, field technicians, suppliers, etc. with an interest in municipal pipelines who wish to keep abreast of emerging industry trends.

WHAT IS INCLUDED?

- Course material
- Breakfast, Lunch, and Refreshment during networking breaks
- 0.7 CEU's

Registration Form

Microtunnelling for Trenchless Construction Projects

February 6



UPCOMING EVENTS

TRENCHLESS TECHNOLOGIES 101
02-4/5-2014
VISIT WWW.OGRA.ORG

RISK MANAGEMENT FOR TT
PROJECTS
02-20-2014

REHABILITATION OF WATER
SERVICES AND LATERALS
03-20-2014

NAME _____

TITLE _____

COMPANY _____

ADDRESS _____

CITY _____ PROVINCE _____ POSTAL CODE _____

PHONE _____ FAX _____

EMAIL _____

EARLY BIRD REGISTRATION

RECEIVED BY: **Friday January 17, 2014**
 \$325/CATT MEMBER \$425/NON-MEMBER

REGULAR REGISTRATION

RECEIVED: **January 18 TO February 3**
 \$425/CATT MEMBER \$525/NON-MEMBER

ON-SITE REGISTRATION

RECEIVED AFTER: **February 3**
 \$525/CATT MEMBER \$625/NON-MEMBER

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

I would like to attend via LIVE WEBCAST

LIVE WEBCAST

METHOD OF PAYMENT - PLEASE PICK ONE

INVOICE COMPANY

CREDIT CARD (MasterCard, VISA, American Express)

CARD #: _____ EXP: / _____

NAME ON CARD:

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

COMPLETED REGISTRATION FORMS CAN BE MAILED AND FAXED

to Alice Seviara at the CATT office:

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Note: to prevent fraud, please **never send credit card information via email.**

Refund Policy: please visit our website www.catt.ca for our details on our refund policy.

THE CENTRE FOR ADVANCEMENT OF TRENCHLESS TECHNOLOGIES

(CATT) was established in 1994 to help municipalities address their buried infrastructure challenges with specific reference to trenchless technologies. CATT is a grouping of university, municipal, industrial, business and government agencies committed to the advancement of knowledge, materials, methods and equipment used in trenchless technologies. CATT's goal is to serve its members and the public by addressing the critical issues facing underground infrastructure installation, assessment, repair, renewal and management.

OUR PLATINUM MEMBERS



OUR GOLD MEMBERS

