

# CIPP Design & Construction



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

**February 22, 2012**

**7:30AM - 5:00PM**

**BREAKFAST, LUNCH AND  
REFRESHMENTS INCLUDED**

MISSISSAUGA GRAND  
35 Brunel Road  
(Brunel & Hurontario St.)  
Mississauga, ON L4Z 3E8  
ph (905) 501-0043  
www.mississaugagrand.com

## WORKSHOP OVERVIEW

CIPP (Cured in Place Pipe) is a water/wastewater pipe renewal technology that uses resin-impregnated fabric to form a new structural or semi-structural pipe wall conforming to the old pipe wall. This renovation has been an effective trenchless pipeline rehabilitation method in Canada since the late 1980s. Over the years CIPP has become one of the most widely used and accepted trenchless pipeline rehabilitation methods for storm and sanitary water collection and, more recently, water distribution pipelines.

## WORKSHOP OBJECTIVE

This one day CIPP-only focused workshop will provide an in-depth overview of the history of CIPP, how CIPP works and its components, problems that can be addressed with CIPP linings, CIPP liner design and materials properties, key elements for a successful CIPP project, and project quality assurance and quality control. At the end of this course you will have good working knowledge of how CIPP work, CIPP components, recent trends in the industry, quality assurance and quality control, and how to develop good and fair CIPP contract specifications. This course will be of interest to municipal engineers, technicians and consultants interested in using cost-effective trenchless technologies for the renovation and repair of buried water and wastewater pipelines.

## Instructors

**Dr. Mark Knight**, Ph.D., P.Eng, Executive director for the Centre for Advancement of Trenchless Technologies at the University of Waterloo and Associate professor Dept. Civil and Environmental Engineering.

TBD

## SCHEDULE

7:30 | REGISTRATION & BREAKFAST

8:00 | OPENING REMARKS AND INTRODUCTION

9:00 | CIPP DESCRIPTION, HISTORY & OVERVIEW OF INSTALLATION METHODS

10:00 | BREAK

10:15 | CIPP AS A TRENCHLESS PIPELINE RENOVATION METHOD

11:15 | CIPP MATERIAL PROPERTIES AND TEST METHODS

12:00 | LUNCH

13:00 | DESIGN OF CIPP LINERS FOR GRAVITY AND PRESSURE PIPELINES

13:45 | REQUIREMENTS AND CONSIDERATIONS FOR A SUCCESSFUL CIPP PROJECT

14:45 | BREAK

15:00 | METHODS TO ENSURE A QUALITY CIPP LINER IS INSTALLED

16:30 | Q&A PERIOD, CLOSING REMARKS & COURSE EVALUATIONS

17:00 | COURSE ADJOURNS

**WHO SHOULD ATTEND THE WORKSHOP?** This course would be of benefit to municipal engineers, consulting engineers, technicians.

### WHAT IS INCLUDED?

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

UNIVERSITY OF  
**WATERLOO**

# Registration Form

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## OTHER UPCOMING EVENTS

ENVIRONMENTAL CONSIDERATIONS  
FOR TT PROJECTS  
03-08-2012

2011 TRENCHLESS TECHNOLOGY PILOT  
PROJECTS: OVERVIEW  
03-22- 2012

SUBSURFACE UTILITY ENGINEERING  
04-03- 2012

DESIGN OF STEEL AND PLASTIC  
PIPELINES USING HORIZONTAL  
DIRECTIONAL DRILL  
04-04- 2012

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

PROVINCE \_\_\_\_\_

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

PHONE \_\_\_\_\_

FAX \_\_\_\_\_

EMAIL \_\_\_\_\_

## EARLY BIRD REGISTRATION

RECEIVED BY: **January 27, 2012**

\$450/CATT MEMBER       \$500/NON-MEMBER

## REGULAR REGISTRATION

RECEIVED BETWEEN: **January 28 – February 19**

\$500/CATT MEMBER       \$550/NON-MEMBER

## ON-SITE REGISTRATION

RECEIVED AFTER: **February 19**

\$550/CATT MEMBER       \$600/NON-MEMBER

Total: \_\_\_\_\_ + 13% HST = \$ \_\_\_\_\_

## METHOD OF PAYMENT - never send credit card information via email

INVOICE COMPANY

CREDIT CARD (MasterCard, VISA, American Express)

CARD #:

EXPIRY:

NAME ON CARD:

CHEQUE (Make cheque payable to University of Waterloo, Attn: Centre for the Advancement of Trenchless Technologies (CATT)).

## COMPLETED REGISTRATION FORMS CAN BE MAILED OR FAXED

to Alice Seviara at the CATT office:

**MAIL:** CENTRE FOR ADVANCEMENT OF TRENCHLESS TECHNOLOGIES

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## 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

