



**Design and Construction of New
Underground Pipelines Using
Trenchless Construction Methods
February 13th 13:30-16:30**

2020



UESI CANADA



**UTILITY ENGINEERING
& SURVEYING
INSTITUTE**
Ontario GTA
Chapter

New Underground Pipelines Using Trenchless Construction Methods

Course Description

This half day workshop will focus on the design and construction of new underground pipelines using trenchless construction methods such as pipe ramming, auger boring, microtunnelling and directional drilling. For each construction method key design and construction requirements will be discussed that will include: costs, equipment, geotechnical and Subsurface Utility Engineering surveys, and pipe design requirements. Key element to make a trenchless project a successful project will also be discussed. Real case studies will be presented to demonstrate the value and cost savings that can be generated by following good design practices.

Instructor:

This workshop will be instructed by Mark Knight PhD, Consulting Engineer Associate Professor in the Department of Civil and Environmental Engineering and Executive Director of the Centre for Advancement of Trenchless Technologies (CATT) also located at the University of Waterloo. Dr. Knight is an international expert in trenchless pipeline construction methods with over 20 years of experience in research, buried pipe design and construction. Dr. Knight and his team have also developed industry leading design software programs such as Vermeer Boreaid, PPI Boreaid, PPI PACE, and HDPEAPP. He has also been retained to design assist with challenging trenchless projects located in North America and China and as an expert in numerous litigation cases. He is also a member of the World Bank Water Expert team and chairs the Canadian ISO committee on Water Pipeline Rehabilitation Committee and the American Water Works Association (AWWA) Watermain Rehabilitation Committee, Development of the Fourth Edition of the Watermain Rehabilitation Manual and the Watermain Cured-in-Place-Pipe Standard.

Who Should Attend?

Municipal engineers, technologists, technicians, operators, engineering consultants, contractors, suppliers, and pipe manufacturers.

What is Included?

- Continuing Education Units (CEUs), Professional Development Hours, Canadian Construction Association Gold Seal Credits
- Course material

About CATT

Centre for Advancement of Trenchless Technologies (CATT), established in 1994 at the University of Waterloo, serves the Canadian municipalities and advances the trenchless technology industry by: offering high quality training and education programs; fostering the next generation of trenchless experts; organizing trenchless technology conferences; developing industry specifications; carrying out state-of-the-art research and development; and providing expert services to address buried infrastructure challenges, protect environment, and save money.

