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**May 2020 CGS-SOS Webinar**  
**Lessons Learned as A Trenchless Litigation Expert and Designer**  
**By: Mark Knight PhD, P.ENG, Consulting Engineer, FIAM and ASCE M.**

**Date:** Thursday May 21, 2020  
**Time:** 12 – 1:30 PM  
**Registration Link:** <https://www.eventbrite.ca/e/cgs-sos-webinar-may-2020-tickets-103944857868>

**Abstract:**

The use of trenchless construction methods for the installation of underground water and gas pipelines and tunnels have become a common and well accepted alternative to traditional continuous open cut. Every trenchless construction project starts with the completion of a geotechnical site investigation and completion of a geotechnical report. Geotechnical reports are used by the “Engineer of Record” to design the pipeline and project and provided in the project tender package.

This presentation will discuss the need for improved geotechnical investigations for trenchless construction projects that are very different than traditional foundation and open cut pipeline projects. This will be accomplished by presenting details of several case studies where the presenter was retained as technical “expert” or “designer”. The presentation will also discuss common geotechnical industry fallacies, industry good practices, and how you can reduce your risk of litigation and exposure to claims.

**Distinguished Speaker:**

**Mark Knight, PhD, P.ENG, Consulting Engineer, FIAM and ASCE M.**

Associate Professor, Department Civil and Environmental Engineering, University of Waterloo  
Executive Director, Centre for Advancement of Trenchless Technology at University of Waterloo.



Mark Knight is a Professor in the Department of Civil and Environmental Engineering at the University of Waterloo where he teaches geotechnical and trenchless construction courses. For the past 20 years he has also been the Executive Director of the Centre for Advancement of Trenchless Technologies (CATT) also located at the University of Waterloo. Mark has a BScE Geological Engineering, and MScE in Civil Engineering from the University of New Brunswick and PhD in Civil Engineering from Queen’s University. Prior to starting his PhD Mark worked as a consulting geotechnical engineer on a wide variety of projects. Over the past 20 years Mark’s research has focused primarily in the area of trenchless construction and water

infrastructure asset management. Mark has also been retained as a technical expert and designer for numerous challenging trenchless construction projects and as a litigation expert for projects where significant cost issues have occurred often related to changing ground conditions. Mark has also developed several industry leading trenchless design programs and currently chairs several American Water Works Association (AWWA) committees - Manual of Watermain Rehabilitation Version 4 revision, Watermain Rehabilitation and the Cured-In-Place-Pipe Standard. Mark is also a former member of the CGS-SOS Executive Committee.