

# CEE GRADUATE SEMINAR SERIES

## Introduction of Trenchless Technologies

**Todd Kilduff**

*Founder and President of Kilduff Underground Engineering*

January 23, 2023 | 4:00 p.m.

On-Campus Location: CKB 207

[Webex Link: Click here](#)



### About the Speaker

Todd Kilduff is founder and president of Kilduff Underground Engineering (KUE) which firm specializes in Excavation Support, Tunneling, Trenchless Technologies, Geotechnical engineering and Geotechnical Instrumentation. Mr. Kilduff founded the firm in Denver Colorado in 2014 and built it to its current staff of 22 individuals with offices in Denver and Red bank, NJ.

Mr. Kilduff has been involved in the design and construction of underground projects for nearly 30 years. He obtained a bachelor's of science in civil engineering from the Ohio State University in 1996 and obtained a master's degree from the Virginia Polytechnic Institute in 2000. He has authored over 24 papers on tunneling and underground construction and is an active member of the Moles, ASCE, UTCA, UCA/SME, AWWA and NASTT.

### Seminar Abstract

Trenchless technology can provide critical knowledge required for environmental planning, permitting, geotechnical and hazardous materials investigations, design, and construction observation services for pipeline installations. Applications of this technology include horizontal directional drilling, jack and bore, pipe ramming, and micro-tunneling for liquid and gas, water, and sewage pipelines. This presentation provides a general overview of Trenchless Technologies (old and new methods) for the new installation of pipelines generally from 6 inches up to 10 feet in diameter. Some methods have been in use for over 60 years and some are brand new to the U.S. market. Regardless of whether its old or new technology, each Trenchless Method has its place in our industry given the requirements of the project and the anticipated ground conditions. This presentation provides guidance on what methods are available in the industry and when and where to apply them.