

# UNDERGROUND LUNCH & LEARN

## Planning and Design of the New Ashbridges Bay Treatment Plant Outfall for the City of Toronto

The Ashbridges Bay Treatment Plant (ABTP) Outfall project by the City of Toronto involves construction of a new tunneled outfall that will convey treated effluent (water) from the ABTP into Lake Ontario. This new outfall will be built to allow cessation of operations of the existing outfall which is reaching the end of its service life and has limited hydraulic capacity.

This presentation is on the planning and design of the project including discussions of challenges such as optimization of the risers, meeting regulatory requirements, addressing underground construction in rock known to exhibit time dependent behavior and riser construction in deep soft ground lakebed deposits overlying bedrock. Ashbridges Bay is a reclaimed lagoon east of the Don River with near-surface onshore materials consisting of landfill material deposited in the early part of the 20<sup>th</sup> century. The project area is underlain by the Upper Ordovician Georgian Bay Formation, a greenish to bluish grey non-calcareous shale.

**March 6<sup>th</sup>, 12-1 PM**  
**Berthoud Hall 241**



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hydroelectric projects. He received the 1999 ASCE Bickel Award for Tunnelling. In 2018, Gary was awarded the International Professional Engineers of Ontario Engineering Medal of Excellence. He currently sits on the Seismic Committee for the International Tunnelling Association.

