



A JOINT SYMPOSIUM OF THE CANADIAN SOCIETY FOR CIVIL ENGINEERING, CALGARY  
GEOTECHNICAL SOCIETY, NORTHWEST CHAPTER OF NORTH AMERICAN SOCIETY FOR TRENCHLESS  
TECHNOLOGY (NASTT), AND THE UNIVERSITY OF CALGARY STUDENT CHAPTER OF NASTT



#### SEMINAR ITINERARY

7:30 – 8:25 am	<b>REGISTRATION – BREAKFAST</b>
8:25 – 8:30 am	<b>Introduction</b> (Master of Ceremonies: Tom Greaves, City of Calgary)
8:30 – 9:00 am	<b>Key Note Address</b> (Mark Wallbom, Miller Pipeline Corporation, President NASTT)
9:00 – 9:25 am	<b>Pipe Bursting Techniques and Methodology</b> (Wing Chan, Earth Tool – Vermeer)
9:25 – 9:50 am	<b>Case Study: Pipe Bursting in the Ajax Coulee</b> (Ralph Havinga, City of Medicine Hat)
9:50 – 10:15 am	<b>COFFEE BREAK</b>
10:15 – 10:40 am	<b>Frac-Out Control Through Engineered Solutions</b> (Grant Jameson & Brent Goerz, Entec Consulting Ltd.)
10:40 – 11:05 am	<b>Case Study: HDD Installation in an Urban Park Setting</b> (Werner Kiefer, Stantec Consulting Ltd.)
11:05 – 11:30 am	<b>Case Study: Forest Lawn Sanitary Siphon HDD</b> (Rob Spackman, CH2M Hill)
11:30 – 11:55 am	<b>A New Restrained Joint PVC Pipe for HDD and other Trenchless Applications</b> (Richard St-Aubin, IPEX Inc.)
12:00 – 1:10 pm	<b>LUNCH BREAK</b>
1:10 – 1:35 pm	<b>Geological Conditions of Calgary</b> (Jerry Osborne, University of Calgary)
1:35 – 2:00 pm	<b>Applications and Limitations of Geophysics to Trenchless Projects</b> (Mark Bowman, Associated Mining Consultants Ltd.)
2:00 – 2:25 pm	<b>Planning Projects Using Simulation to Model Underground Construction Operations</b> (Janaka Ruwanpura, University of Calgary)
2:25 – 2:50 pm	<b>COFFEE BREAK</b>
2:50 – 3:15 pm	<b>Advancements in Lining Applications and Technology</b> (Ken Foster, Insituform Technologies Limited)
3:15 – 3:40 pm	<b>Guided Boring</b> (Steve Garbisch, Akkerman)
3:40 – 4:05 pm	<b>Case Study: Syncrude UE-1 Microtunnel</b> (Ross Nelson, Neptune Coring Ltd.)
4:05 – 4:20 pm	<b>CLOSING REMARKS</b>