



BRITISH COLUMBIA CHAPTER
Tunnelling Association of Canada
Association Canadienne Des Tunnels

INVITATION

Hyperbaric Interventions. Evergreen Transit Line Case Study

Presenters: Scott Black and Stu Simmons, ASI Marine

Date & Time: Tuesday, October 8, 2019
Doors and Registration: 5:30pm
Presentation: 6:15pm



Location: Uber Room, Steamworks Pub
375 Water Street, Vancouver, BC.

Cost: TAC Members: \$5 at the Door
Non-Members: \$10 at the Door
Cash Only Please

RSVP: Although RSVP is not required and last minute attendees are welcome, please notify npoves@golder.com if you plan to attend.

Presentation Overview:

Hyperbaric interventions involve all aspects of hyperbaric tunneling support and it is important to understand the equipment and processes involved with it. An earth pressure balance (EPB) tunnel boring machine (TBM) is a machine developed to combat against the natural pressures of the earth of which it is mining into. The air pressure introduced into the working chamber of the TBM is slightly higher than the surrounding ground pressure, resulting in a pressurized space that allows workers to perform inspections, maintenance and repairs on the cutting head in a hyperbaric environment. Complex repairs can be successfully performed in this hyperbaric environment including complete tooling changes, reconfiguration and cutter head repairs utilizing structural hyperbaric welding. ASI Marine plans and manages hyperbaric interventions, supervises hyperbaric operations and provides full on-site medical support during and post-intervention. ASI Marine has extensive understanding of the risk assessment and management, hyperbaric worker training, and adherence to local regulatory requirements required for hyperbaric tunneling. ASI's past project experience case study of the Evergreen Transit Line in Port Moody, B.C. will demonstrate this.

Speaker Bios:

Scott Black: Scott Black is Vice President at ASI Marine. He has over 35 years of experience in the marine industry, and 10 years within the tunneling industry. Scott has planned and managed over 500 hyperbaric interventions in support of tunnel construction and led ASI Marine to be the first Canadian company to offer hyperbaric intervention services to the tunneling industry in Canada. Scott also serves as Committee Chair of CSA Standard Occupational Safety Code for Work in Compressed Air Environments.

Stu Simms: Stu Simms is a Marine Project Manager for ASI in Western Canada. Since 1992, Mr Simms has gained experience in the fields of hyperbaric intervention, diving support and technical services for the public, municipal and industrial sectors. Stu was previously National Diving Program Coordinator for the Canadian Coast Guard Search and Rescue Diving Program, the Hypo / Hyperbaric Safety Director at the Environmental Medicine and Physiology Unit at Simon Fraser University, and has operated on multiple civil, humanitarian and marine casualty response situations in his 27 years in the field.