

**BCGS - Fall Symposium - 11 October 2019**  
**Engineering, Environmental and Groundwater Geophysics**

Co-Chairs: Graham Parkinson, Klohn Crippen Berger & Cliff Candy, Frontier Geosciences

Start Time	End Time	Organization	Authors	Title	Speaker
07:30	08:00	<b>Registration</b>			
08:00	08:10	BCGS	BCGS	Welcome and opening remarks	Dennis Woods
08:10	08:40	Center for Science in Public Participation (CSP <sup>2</sup> )	David Chambers	From Bulletin 121 to Brumadinho: The Increasing Frequency & Severity of Tailings Facility Failures: Navigating the Decade 2020-2029	David Chambers
08:40	09:10	Klohn Crippen Berger	Harvey McLeod	Safe design of tailings dams: how geophysics can help	Harvey McLeod
09:10	09:40	Klohn Crippen Berger	Graham Parkinson	The gamut of tailings dam geophysics	Graham Parkinson
09:40	10:10	DMT Geosciences	Doug McConnell	Failure is not an option: tailings dam investigations with geophysics and the Mount Polley review.	Doug McConnell
10:10	10:15	<b>Sponsor #1 Presentation</b>			
10:15	10:35	<b>Morning Coffee Break</b>			
10:35	11:05	Golder Associates	Michael Maxwell Robert Eso	3D electrical resistivity imaging (ERI) investigations of surface tailings facilities and underground mine operations.	Michael Maxwell
11:05	11:35	Groundradar Inc	Jan Francke	Radar imaging of TSFs and the potential of 4D tomographic monitoring	Jan Francke
11:35	12:05	Mira Geoscience	John McGaughey	The role of geophysics in quantitative geotechnical hazard assessment	John McGaughey
12:05	12:10	<b>Sponsor #2 Presentation</b>			
12:10	13:00	<b>Lunch</b>			
13:00	13:30	Echo Environmental & Geotechnical	David Schieck	Shear landstreamer profiling for dam and levee investigations: single pass MASW, P- & SH-wave reflection technology	David Schieck
13:30	14:00	OptaSense	Martin Karrenbach	Distributed fiber-optic sensing (DAS) in geophysical and engineering applications	Martin Karrenbach
14:00	14:30	DGI Geoscience Qteq	Riaz Tejani Marcus Donaldson	Using borehole magnetic resonance to detect free and bound water in tailings and estimate hydraulic conductivity to predict resistance to static liquefaction failure in upstream tailings dams	Riaz Tejani
14:30	15:00	Frontier Geosciences	Caitlin Shaw-MacLaren Cliff Candy	Geophysical site investigations at the Bennett Dam	Caitlin Shaw-MacLaren
15:00	15:05	<b>Sponsor #3 Presentation</b>			
15:05	15:30	<b>Afternoon Coffee Break</b>			
15:30	16:00	Bemex Consulting Int'l	Mel Best	The Peace project aquifer study	Mel Best
16:00	16:30	Black Tusk Geophysics	Len Pasion Kevin Kingdon	The application of the UltraTEM metal detector to mining environments	Kevin Kingdon
16:30	17:00	Ocean Floor Geophysics	Peter Kowalczyk Karen Weitemeyer	Using AUV Electric Field measurements to monitor the integrity of cathodic protection systems on subsea pipelines	Karen Weitemeyer
17:00	17:30	<b>Speaker/Audience Discussion</b>			
Breaks		GSC - NRCan	David Huntley	Proactive Infrastructure Monitoring and Evaluation (PRIME) Installation in Canada: Protecting National Railways by Monitoring an Active Landslide near Ashcroft, BC	Poster
18:00	20:00	<b>Reception</b> <b>Regis Room @ St Regis Bar and Grill</b> <b>608 Dunsmuir St, Vancouver, BC, V6B 1Y6</b>			