

**2020 Tailings and Mine Waste Conference
Technical Paper Presentation Schedule**

Last Updated: 2020-10-26

Day 1: Monday, November 16					
Session / Track	Moderator	Presentation Title	Presenter - Last Name	Presenter - First Name	Company
1A Geotechnical Considerations 1	Ryan Shedivy	Variability in sand characteristics – a case study at LKAB mine tailings facility in Sweden	Engström	Karin	LKAB
		TAILENG Mine Tailings Database	Macedo	Jorge	Georgia Institute of Technology
		Use of high performance fibres to enhance tailings	Quinter Olaya	Sebastian	University of Queensland
		Specimens size effect on the compressive strength of geopolymerized mine tailings	Zhang	Nan	Colorado School of Mines
1B Reclamation & Remediation	Andy Jung	Geochemical and hydrological lags and impact on covers on PAG mine wastes	Williams	David	The University of Queensland
		Influence of residual sulfide content and mineralogical composition of desulfurized tailings on performance as reclamation cover	Demers	Isabelle	Université du Québec en Abitibi-Témiscamingue
		Hydrologic predictions of water content and oxygen concentration in a geowaste test pile	Reza Gorakhki	Mohammad	Barr Engineering
		Gas transport inside co-disposal of desulfurized tailings and sulfidic waste rocks	Huang	Cheng	Energy, Mining and Environment Research Centre
1C Risk Informed Design 1	Mike Henderson	Risks of dormancy: Reducing tailings risk after operations, before closure	Boswell	Jeremy	Thurber Engineering Ltd.
		Reducing long term risk at the Candelaria Tailings Storage Facility	Sotil	Antonio	Knight Piésold Ltd
		Risk-based prioritization of improvement plans for critical infrastructure	Chovan	Karen	Enviro Integration Strategies
		Improved tailings dam design and management through smarter modeling	Moncrieff	Josh	Capstone Mining Corp
2A Geotechnical Considerations 2	Zach Fox	A rapid measurement method to determine hydraulic conductivity of tailings under self-weight consolidation	Paul	Simms	Carleton University
		Exploring the effects of side wall friction in a slurry consolidometer test	Barnard	Hennie	Golder Associates Africa (Pty) Ltd
		Evolution of shear strength and consolidation behavior of mine tailings from a slurry to a soil state	Tehrani	Kathy	The University of Queensland
		On the performance of two advanced constitutive models in capturing the element response of tailings	Pretell	Renmin	University of California, Davis
2B Site Characterization & Monitoring 2	Matt Fuller	Tailings dam monitoring: Time for an integrated system approach	Oliveira	Luciano	Stratalis Consulting
		Permanent geoelectrical monitoring of tailings dams using the autonomous G.R.E.T.A. system	Tresoldi	Greta	LSI-LASTEM
		Mine tailings surveying after the Brumadinho dam failure	Turner	Jim	PhotoSat
2C Design & Operation 4	Nick Rocco	Recent geotechnical monitoring results reflect operational improvements at the Newmont Peñasquito	García	Eduardo	Newmont - Mexico
		Hydrographs for Tailings Dam Breach Analysis – A Review of Common Estimation Methodologies	Walden	Mark	NewFields
		An overview on methodologies for tailings dam breach study	Liu	Shielan	BGC Engineering Inc.
		Effect of different tailings dam environments and conditions on phreatic conditions	Clarkson	Luke	The University of Queensland
		Lupin Mine – A case study in adaptive tailings management	McKinley	James	Stantec

Day 2: Tuesday, November 17					
Session / Track	Moderator	Presentation Title	Presenter - Last Name	Presenter - First Name	Company
3A Geotechnical Considerations 3	Daniel Servigna	Managing the liquefaction potential of compacted tailings sand at Suncor	Zhang	Ying	Wood Environment & Infrastructure Solutions
		Effect of shear strain rate on undrained shearing resistance of a clean silica sand measured in direct simple shear tests	Chen	Jiarui	University of Illinois - Urbana-Champaign
		Assessment of Liquefaction Triggering for Upstream Tailings Dams Using Limiting Equilibrium Methods	Gjerapic	Gordan	University of Colorado at Boulder
		3D DEM undrained tests to elucidate liquefaction onset in granular media	Utili	Stefano	Newcastle University
3B Design & Operation 1	Kurt Schimpke	Modeling slope instability due to undrained creep	Boulanger	Ross W	University of California, Davis
		Dynamic effective stress analysis of a centerline tailings dam – Case Study	Macedo	Jorge	Georgia Institute of Technology
		Seismic stability assessment of upstream raised TSF on the African Rift Belt	Theron	Michelle	Geotechnical Analysis Group
		Deformation and cracking of an upstream gold TSF embankment due to yielding of underlying rock	Shields	Rynier	Jones & Wagener Engineering & Env. Consultants
3C Site Characterization & Monitoring 1	Shawn Steiner	Variable penetration rate CPT testing for mine tailings characterization	DeJong	Jason	University of California, Davis
		Tailings characterization using cone penetration testing and machine learning	Entezari	Iman	ConeTec Investigations Ltd
		CPT dynamic pore water pressure and liquefaction potential in tailings sand at Suncor	Zhang	Ying	Wood Environment & Infrastructure Solutions
		Evaluation of shear wave velocity and void ratio in mine tailings using the field velocity resistivity probe	Harvey	Jason	Barr Engineering Co
4A Filtered Tailings	Matt Bachnman	The impact of thickening on fast filtration of tailings	Rahal	Kenneth	FLSmith Tailings Solutions
		Filtered tailings facilities and upset conditions	Kent	Nicholas	Klohn Crippen Berger
		Enhancing vacuum belt filter dewatering to adapt to finer tailings grind – a Case Study	Whatnall	Oliver	Jord International
		Decoupling the effects of ultrafine solids and residual bitumen on the filterability of oil sands tailings	Liu	Qi	University of Alberta
4B Design & Operation 2	Daryl Longwell	Stability assessment of a tailings dam with frozen tailings	Bedell	Paul	Golder Associates
		A comparative study of methods used to determinate the factor of safety	Brandão	Hugo A	UFMG
		Numerical modelling of a mine waste dump-heap leach pad with different constitutive models	Valdivia	Myzael	Anddes
		Internal erosion assessment for existing mining dams	Johns	Chris	Tetra Tech
4C Geosynthetics	Kate Patterson	Hydraulic conductivity of geosynthetic clay liners to synthetic mine waste leachates	Norris	Anna	Colorado State University
		Successful tailings dewatering design using multi-linear drainage geocomposites	Saunier	Pascal	AFITEX-Textel Geosynthetics Inc.
		New lighter, longer GCLs for mining applications	Donovan	Michael	CETCO
		Consideration of polymers to create a more cost-effective and sustainable approach to contaminated river sediment remediation	Guang	Raymond	Golder Associates

Day 3: Wednesday, November 18

Session / Track	Moderator	Presentation Title	Presenter - Last Name	Presenter - First Name	Company
5A Geochemistry	Larry Cope	Geochemical characterization of sulfurized tailings and waste rock of a graphite mine	Lord	Veronik	Research Institute on Mines and Environment (RIME)
		Innovative leachate treatment using passive biochemical reactors	Robinson	Jamie	SLR Consulting Limited
		Innovative field characterization method for self-heating potential of sulphidic paste backfill	Timmis	Bret	Golder
		Large-scale instrumented column test to assess oxidation and leachate	Zhang	Chenming	The University of Queensland
5B Governance	Jason Hilgers	All Hands on Deck! - A Semi-Quantitative Attempt to Characterize the impending Qualified Tailings Professional Resource Shortage	Halton	C.N.	Haley and Aldrich, Inc.
		Developing trigger action response plans (TARPS) in a changing regulatory environment	Davis	Michael	Stantec
		Preparation of an ISO standard for mine closure and reclamation planning	Nahir	Michael	Parsons
		Mineral industry in Armenia: management issues and perspectives for tailings retreatment	Arakelyan	Alexander	AUA Acopian Center for the Environment + AUA Center for Responsible Mining
5C New Technologies	Melanie Davis	Improving behavior of gold mine tailings using microbes compared with adding cement, for closure of in-pit tailings	Cifuentes	Hernan	The University of Queensland
		Glass from tailings	Nelson	Priscilla P	Colorado School of Mines
		Nano Meso Inorganic Technology: Bind & contain RCRA 8 metals & stabilize mine tailings	Brammer	T.J.	Pro-Seal Products Corporation
		Incorporating lime treatment as part of innovative mine water treatment strategies	Minchow	Kristina	Golder
6A Design & Operation 3	Dan Overton	Field water release and consolidation performance of XUR treated fluid fine tailings	Jeeravipoolvarn	Silawat	Thurber Engineering Ltd.
		Consolidation modeling for design of complex in-pit tailings storage facility	Tripathi	Sudhir	Knight Piesold and Co.
		Calibration of tailing consolidation parameters using field measurements	Brink	Nicholas	Stantec
		Sand capping trial on frozen centrifuged tailings deposit	Wu	Evan	Thurber Engineering Ltd.
6B Mine Tailings Topics	Carlo Cooper	Tailings dewatering – Analysis of cases to understand trends in capex and opex	Wallgren	Mark	Outotec
		Integrated Storage Facility – A new concept for mine waste storage	Saiang	David	New Mexico Institute of Mining & Technology
		EO4RM: Earth Observation best practices for the mining of Raw Materials	Peters	Ton	Deltares
		Creating TSF histories using modern commercial and declassified Cold War satellite photos	Turner	Jim	Photosat
6C Risk Informed Design 2	Dean Durkee	The factor of safety and probability of failure relationship	Oboni	Franco	Oboni Riskope Associates, Inc.
		Boosting a more efficient Tailings Dam risk management service through an innovative IoT ecosystem	Bartoli	Andrea	World Sensing
		Assessing automated hazard mapping of tailings storage facility failures	Innis	Sally	The University of British Columbia
		The effect of assumed residual strength on remediation cost of a typical tailings dam	Sarantonis	Emmanuel	BGC Engineering Inc.

Note: Schedule is subject to change.