

TAILINGS AND MINE WASTE 2019 – FINAL PAPERS

No.	Paper Title	Authors	Company Affiliation	Theme	
9	Resistance of Lead-Zinc Tailings to Cyclic Loading	Masoumeh Saiyar, Dennis E. Becker, Steven L. Anderson	Golder	5. Design	Podium
11	Pulsation Dampening in Tailings Handling with Piston Pumps	Tobias Lutz	Putzmeister Solid Pumps, Germany	2. Technologies	Podium
12	Stabilization of copper porphyry tailings with tailings-glass geopolymer solidification	Donald Lake	Terra CO ₂ Technologies, Canada	2. Technologies	Podium
13	Applying circulating load in thickeners modifies decantation of fine particles	Hossein Nematollahi	Asfalt Tous Company, Iran	5. Design	Podium
14	Normalized shear modulus reduction and damping ratio curve of mine waste and leached ore	Eder Tapia, Renzo Ayala, Denys Parra	Anddes and National University of Engineering, Lima, Perú	5. Design	Podium
15	The benefits of a quantitative risk assessment approach to assess the risk of catastrophic TSF failure	Peter J Chapman, David A Williams	Golder, Australia	1. Management	Podium
16	Rethinking Waste between Industries	Robyn Gaebel	Teck / Fording River Operations, Elkford, BC.	6. Case Histories	Podium
17	Post-Córrego do Feijão: Continued Evolution of Tailings Dam Regulations in Brazil	Kimberly F. Morrison, Paulo C.R. Gomide	Newmont Goldcorp, USA CMOC Brasil, Brazill	1. Management	Podium
18	Synthetic Water Calibration for Water Quality Parameters & Water Treatment Program Validation	Lynda Smithard	McCue Engineering Contractors	3. Environmental	Podium
19	Long-term performance of oil sands mine reclamation covers under high-resolution climate change projections	Md. Shahabul Alam, S. Lee Barbour, Mingbin Huang, Yanping Li	University of Saskatchewan	5. Design	Podium
20	Tailings dams quantitative risk prioritization	Franco Oboni, Cesar Oboni	Oboni Riskope Associates Inc	6. Case Histories	Podium
21	On some considerations related to pore fluid chemistry in tailings critical state testing	Riccardo Fanni, David Reid, Kyle Smith	Golder, Australia The University of Western Australia	5. Design	Podium
23	Uranium ore treatment tailings pond remediation - A case study	Laura Carbone, Ole Syllwasschy, Lilma Schimmel, Melchior Briers	Huesker Synthetic GmbH, Germany Huesker Inc., USA	6. Case Histories	Podium

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24	Meaningful Chilean public-private collaboration end up with the development of the transparent online monitoring system for tailings facilities	Angela Oblasser, Jorge Vargas, Rodrigo Moya, René Orellana, Cleve Lightfoot	Fundación Chile, Chile National Survey for Geology and Mining, Chile Antofagasta Minerals, Chile CODELCO, Chile BHP, Chile	1. Management	Podium
26	Detailed Geomorphic Design of a Waste Dump in the Mineable Oil Sands Region	Monica Ansah-Sam, Dejiang Long, Collen Middleton, Matthew Knapik	Canadian Natural Resources Limited, Canadian Natural Albian Sands, Golder, O2 Planning + Design Ltd.,	5. Design	Podium
27	A new technique for measuring the reactivity of sulfidic ores and wastes: The application of infrared thermography	Marjan Knobloch, Bernd G. Lottermoser	Institute of Mineral Resources Engineering, RWTH Aachen University	2. Technologies	Podium
29	Impact of climate change on surface water management at tailings storage facilities	Pier-Luc Labonté- Raymond, Thomas Pabst, Bruno Bussière, Émilie Bresson	Polytechnique Montreal, RIME, Canada UQAT, RIME, Canada	6. Case Histories	Podium
32	Cycloned copper tailings sands: practical methods for benchmarking design parameters	Jared Whitehead, Andrew Witte	Klohn Crippen Berger Ltd.	5. Design	Podium
33	Liquefaction assessment of a thickened tailings deposit in an arid environment using empirical approaches and critical state laboratory testing to calibrate cone penetration tests	B. Tiver, H. Munoz, P. Chapman	Golder, Australia	6. Case Histories	Podium
35	Foundation Geotechnical Investigations at Two Gold Mine Tailings Storage Facilities in Western Australia	Brendan Cummins, Riccardo Fanni, Dr Peter Chapman	Golder, Australia	6. Case Histories	Podium
36	Construction of a new Tailings Storage Facility with a Lined Basin in West Africa, a Case Study	Philip Addis, Daniel Jones, Brent Bronson	Golder, Mississauga, Ontario, Canada Golder, Denver, United States	4. Geosynthetics	Podium
39	Assessment of Leach Ore Dry Unit Weight and Hydraulic Performance	Peter D. Duryea	Knight Piésold and Co.	5. Design	Podium
43	Challenges associated with water management and embankment raising of a large single-cell central discharge tailings storage facility in Australia	Gerrie Le Roux, Brett Mullen, David Williams, Mahmud Safari	Golder Associates Pty Ltd. BHP Nickel West, Australia	6. Case Histories	Podium

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44	Baseline Investigations and Preliminary Design for an In-Pit Tailings Storage Facility, Magistral Mine, Sinaloa	Patrick Williamson, Hernan Beltran, Chris Lane, Jim Willis	INTERA Inc, USA Minera Pangea, México L&MG SPL, Australia Tierra Group International, USA	6. Case Histories	Podium
46	Valorization of phosphate mine wastes: the challenge of additional resource recovery from phosphate rock	Bernd G. Lottermoser	MRE – Institute of Mineral Resources Engineering RWTH Aachen University	1. Management	Podium
48	Evaluation of a Split Stream Dewatering Flowsheet for Tailings	Kenneth Rahal, Todd Wisdom	FLSmidth, USA	2. Technologies	Podium
52	Effects of Shear on Dewatering and Compressibility of Treated Oil Sands Tailings	Scott E Webster, Tayfun Aydin, Clara Gomez, Amarebh Sorta, Babak Derakhshandeh, Abu Junaid, Reza Moussavi Nik, Givemore Sakuhuni	Coanda Research & Development Corp., Canada Suncor Energy, Canada Canadian Natural Resources Ltd., Canada Imperial Oil, Canada	5. Design	Podium
54	Mine Tailings and Fly Ash: More Alike Than You May Think	Jeffrey Hill, Paul Schmall, Josh Kolz	Hayward Baker Inc., USA Moretrench, USA	6. Case Histories	Podium
56	Improved QA/QC of Double-Lined Ponds for Processed Water Containment	Heather D. McDaniel, Roman Belts, Pascal Saunier	Souder Miller & Associates, USA Ing., Groupe Alphard, Canada P.E., AFITEX-Textel, Canada	4. Geosynthetics	Podium
58	Field Testing to Assess the Relative Evaporation Potential of Granular Cover Materials	Kristen Gault, David Bleiker, Xiaogang Hu	Wood Environment & Infrastructure Solutions, Canada X.Hu Consulting Inc., Canada	5. Design	Podium
61	Encapsulation of Mine Waste with Geomembrane as the Preferred Closure Option for Gordon Lake Sites in NWT	Kris Hojka, Amy Allan, Giselle Cotta, Dave Bynski, Allen MacGarvie, Laya Bou-Karam	Stantec Consulting Ltd. Crown Indigenous Relations and Northern Affairs Canada Public Services and Procurement Canada DXB Projects	4. Geosynthetics	Podium

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62	Static Liquefaction of Tailings: An Update on the Industry Funded TAILLIQ Research Project	Andy Fourie, David Reid, Adrian Russell, Mizanur Rahman, J Vinod, Thanh Vo	University of Western Australia, Perth, Australia University of New South Wales, Sydney, Australia University of South Australia, Adelaide, Australia University of Wollongong, Wollongong, Australia	2. Technologies	Podium
64	Determination of Consolidation Parameters using Settling Column Tests	Gordan Gjerapic, Murat Kaya, Matt Barrett, Dobroslav Znidarcic	Golder, USA University of Colorado at Boulder, USA	5. Design	Podium
66	"Environmental assessment of residues from field multi-step passive treatment of Fe-AMD: Case study of the Lorraine mine site, QC, Canada"	M. Jouini, C.M. Neculita, T. Genty, M. Benzaazoua	The Research Institute on Mines and Environment (RIME) - UQAT / Polytechnique	6. Case Histories	Podium
67	"Material-Specific Intrinsic Oxidation Rates from Custom Laboratory Oxygen Consumption Testing"	D. Morgan Warren, Jacob S. Waples, Matthew Cashimer	Golder, USA HydroGeologica Inc., USA	5. Design	Podium
71	Using Technology to Identify Seepage Flow Paths Through, Under and Around Tailings Impoundments	Ryan Blanchard, Judson Kennedy	Willowstick Technologies, USA	2. Technologies	Podium
72	Comparison of Oil Sand Tailings Consolidation Properties Derived from Beam Centrifuge and Large-Strain Consolidometer Testing	Monica Ansah-Sam, Jason Stianson, Karsten Rudolf, Gonzalo Zambrano Narvaez	Canadian Natural Resources Limited, Calgary, AB, Canada Golder, SK, Canada University of Alberta, Edmonton, AB, Canada	5. Design	Podium
75	Developing a sustainable local native forb seed source to maintain biodiversity at an Artic Mine	Alison Kelley, Peter Johnson, Johanna Salatas	Fuse & traverse, llc, United States Teck Alaska, Inc, United States	3. Environmental	Podium
76	Critical state testing of tailings: comparison between various tailings and implications for design	Kyle Smith, Riccardo Fanni, Peter Chapman, David Reid	Golder, Australia The University of Western Australia, Golder Associates Pty Ltd.	5. Design	Podium
85	Field Shear Vane Testing in Tailings	Chad Mundle, Fiona Esford, Michel Julien	Golder, Canada	5. Design	Podium
87	Hurricanes Harvey and Florence; Are Storms Changing and How Does this Effect TSF and Dam Design?	Bill Kappel	Applied Weather Associates, USA	3. Environmental	Podium
88	A study of the impact of evapotranspiration through native plant species on the strength and solids content of treated oil sands tailings	Scott Labege, Nicholas Beier, Amanda Schoonmaker	University of Alberta, Canada Northern Alberta Institute of Technology, Canada	2. Technologies	Podium

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89	CPT approach to evaluating flow liquefaction using yield stress ratio	Paul W. Mayne, Jamie Sharp	Georgia Institute of Technology, USA ConeTec Group, Canada	2. Technologies	Podium
90	Introducing a runout zone classification for the analysis of tailings-flows	Negar Ghahramani, McDougall S., Mitchell A., Evans S. G., Take A., Cuervo V.	UBC/Department of Earth, Ocean and Atmospheric Sciences Department of Earth and Environmental Sciences, University of Waterloo, Waterloo, Canada Department of Civil Engineering, Queen's University, Kingston, Canada BGC Engineering, Calgary, Canada	2. Technologies	Podium
93	Earthquake Ground Motion Selection Criteria for Analysis of Tailings and Mine-Waste Facilities	Marcelo Martinez, Alan Hull	Golder, Chile Golder, United States	5. Design	Podium
94	Interpretation Uncertainty within a Mechanics-Based Critical State Approach to Tailings Characterization	Andrew Fuggle, Kugel, J	Golder, USA	5. Design	Podium
95	The role of institutional mining investors in driving responsible tailings management	Sally Innis, Dr. Nadja Kunz	University of British Columbia	1. Management	Podium
96	Strategies for Climate Change Adaptation during Land Restoration and Mine Closure	Gabriel Castillo Devoto, Dr. Nadja Kunz	University of British Columbia	5. Design	Podium
99	Multi-dimensional Tailings Deposition and Consolidation Modelling	Alessandro Amodio, Hongjie Zhou, Noel Boylan	Norwegian Geotechnical Institute (NGI)	2. Technologies	Podium
104	Physical Modelling of Tailings Dam Breach	Andrea Walsh, W. Andy Take, Scott McDougall, Stephen G. Evans	Queen's University University of British Columbia University of Waterloo, Canada	2. Technologies	Podium
107	Approach and Considerations for Operation, Maintenance and Surveillance (OMS) Manual Development	Paul Bedell	Golder, Canada	1. Management	Podium
110	The effect of arctic conditions on the geochemical behavior of sulfidic tailings	Gary Schudel, Benoît Plante, Bruno Bussière, Joyce McBeth, Guy Dufour	Université du Québec en Abitibi- Témiscamingue and École Polytechnique de Montréal University of Saskatchewan, Canada Raglan Mine, Québec, Canada	3. Environmental	Podium

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112	An overview of seepage control measures in in-pit dams with a design example from Alberta Oil Sands	Pathma Wedage, Yang Li, Mickey Davachi	Wood Environment & Infrastructure Solutions, Edmonton, Canada Wood Environment & Infrastructure Solutions, Calgary, Canada	5. Design	Podium
114	Evolution of landforms in reclaimed landscapes in the surface mineable Athabasca oil sands	Alexander Holden, Heather Provost, June Pollard, Gord McKenna, Patrick Sean Wells	BGC Engineering Inc., Canada J Pollard Consulting, Canada McKenna Geotechnical Inc., Canada Suncor Energy Inc., Canada	3. Environmental	Podium
119	Characterization of Oil Sands Tailings Using Hyperspectral Technology	Iman Entezari, James Sharp, Dallas McGowan	ConeTec Investigations Ltd.	2. Technologies	Podium
120	Assessment of different reclamation scenarios for the abandoned Principale mine site (Quebec, Canada) using laboratory column tests	Abdelkabar Maqsoud, Bruno Bussière, UQAT- RIME, Canada Hassan Bouzehzah, Sophie Turcotte	UQAT-RIME, Canada University of Liège, Belgium MERN, Canada	6. Case Histories	Podium
123	Management of Geotechnical and Rheological Behaviour of Tailings to produce Engineered Fill	Janis Drozdiak, Eduardo Salfate	Golder, Canada Golder, Chile	5. Design	Podium
124	Underground Mine Rehabilitation for Closure: A Uranium Case Study	Sue Longo, Chloe Crossley	Golder, Canada	6. Case Histories	Podium
126	Creating Better Tailings Facilities Using Innovative Process Engineering	Christian Kujawa, Jeff Winterton, Rachel Jansen, Robert Cooke	Paterson & Cooke Ltd USA	2. Technologies	Podium
130	Cyclic and Post-Cyclic Response of Tailings under Direct Simple Shear Loading	Miguel Regalado, Rolando Rojas, Renzo Ayala, Denys Parra	Anddes and National University of Engineering, Peru	5. Design	Podium
135	Expanding Tailings Stewardship to Include Towards Sustainable Mining Verification	Melanie Davis, Jason Cumbers	Stantec Consulting Services Inc.	1. Management	Podium

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136	Geochemical Assessment of Tailings, Soils and Sediments along the Areas Affected by the Samarco Dam Breach	Kristin Salzsauler and Thais Moreira Amaral, Rens Verburg and Cheryl Ross, Antônio Freitas, Luis H Melges Figueiredo, Pedro Ivo Diógenis	Golder. Canada Golder. USA Golder. Brazil Fundação Renova, Brazil	3. Environmental	Podium
141	Running Downhill: An adaptable approach to water management planning used for Swift Creek Expansion	George Adom, Daniel Hoover, Jake Gentles, Monica Wagner, Matthew Graham	Teck Coal Limited, Canada, Wood Engineering, Canada	1. Management	Podium
142	Liquefaction Susceptibility Evaluation of Mine Tailings Using CPT	Iván A Contreras, Aaron Grosser	Barr Engineering Company, USA	5. Design	Podium
143	"Effects of microbial-induced calcium carbonate precipitation on settling and consolidation of tailings"	Hernan Cifuentes, David J. Williams	The University of Queensland, Brisbane, Australia	5. Design	Podium
145	Obstacles to Effective Mine Closure, Rehabilitation and Relinquishment	David J Williams	The University of Queensland, Australia	5. Design	Podium
151	Passive-Aggressive Treatment of Arsenic in Mine Water using Iron Hydroxide Sorption	Drummond Earley III, Lee Becker, Sheena Styger, Jay Snyder	EA Engineering Science and Technology Inc. PBC, USA	3. Environmental	Podium
154	Myra Falls Case Study (Paper 1): Current Acid Rock Drainage (ARD) Impacts and Seepage Interception Strategies	Paul Ferguson, Mahmoud Hussein, Christoph Wels, Nicole Pesonen	Robertson GeoConsultants Inc, Canada Nyrstar Myra Falls, Campbell River, Canada	3. Environmental	Podium
155	Myra Falls Case Study (Paper 2): Numerical Modelling of Groundwater Flow and Contaminant Transport	Mahmoud Hussein, Paul Ferguson, Christoph Wels, Nicole Pesonen	Robertson GeoConsultants Inc. Nyrstar Myra Falls, Campbell River, Canada	3. Environmental	Podium
158	Water Matters – Final Draindown Modelling for Mine Waste Facilities	Iozsef Miskolczi, Maritz Rykaart	SRK Consulting (Canada) Inc., Canada	5. Design	Podium
159	Variably-Saturated Flow Modeling of a Heap Leach Pad: Analysis of Saturation Mechanisms	Kelly Greaser, Jean Kugel, Arlen Striegl	Golder, USA	5. Design	Podium

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160	Static liquefaction-type tailings dam failures: understanding options for detecting failures	Susanne Ouellet, Naia Suszek, Matt Lato, Brad Russell, Corey Froese, Ed Carey	BGC Engineering Inc., Vancouver, Canada	1. Management	Podium
164	Responsible Design and Other Defences Against Static Liquefaction of Tailings Structures	Jeremy Boswell, John Sobkowicz, Iain Gidley, Amy Rentz, Colin Schmidt	Thurber Engineering Ltd., Calgary, Alberta, Canada	6. Case Histories	Podium
165	Performance-based assessment of seismically-induced slope displacements in tailings dams	Jorge Macedo, Gabriel Candia	Georgia Institute of Technology, United States Universidad del Desarrollo, Chile	2. Technologies	Podium
167	A computational platform for the quantification of the seismic demand in mining projects	Gabriel Candia, Jorge Macedo, Miguel A. Jaimes, Carolina Magna-Verdugo	Universidad del Desarrollo, Chile Georgia Institute of Technology Instituto de Ingeniería UNAM, México Universidad Adolfo Ibáñez	2. Technologies	Podium
170	From Design to Operation: Filtered Tailings at the Meliadine Gold Mine, Nunavut, Canada	Nigel Goldup, Jennifer Pyluk, Guangwen (Gordon) Zhang, Bill Horne, Thomas Lepine	Tetra Tech Canada Inc., Canada Agnico Eagle Mines Limited, Canada	6. Case Histories	Podium
172	Calibration of two plasticity models against the static and cyclic response of tailings materials	Jorge Macedo, Alexandros Petalas	Georgia Institute of Technology Imperial College of London, United Kingdom	5. Design	Podium
178	In Situ Hydraulic Conductivity Testing of a GeoWaste Test Pile	Mohammad H. Gorakhki, Christopher A. Bareither, Joseph Scalia, Manuel Aparacio, Michael Jacobs	Colorado State University, USA Newmont Goldcorp, Guatemala Newmont Goldcorp, Canada	5. Design	Podium
184	Tailings storage facility embankment reconstruction at Mount Polley Mine	Germán Pizarro-Sala, Fernando Ascencio, Adam Pfitzenmaier	Golder, Canada	6. Case Histories	Podium
187	Mine Tailings Consolidation Properties Derived from Beam Centrifuge	Gonzalo Zambrano Narvaez, Rick Chalaturnyk, Yazhao Wang	University of Alberta, Canada	5. Design	Podium

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189	Case Study using the Stability Rating and Hazard Classification System for Mine Waste Stockpiles	John Cunning, Marielle Limoges, Matthew Brenner	Golder, Vancouver, Canada Golder, Montreal, Canada	6. Case Histories	Podium
190	Geotechnical and unsaturated properties of metal mines and oil sand tailings	Louis Kabwe, Ahlam Abdulnabi, Ward Wilson, Nicholas Beier, Don Scott	University of Alberta, Canada	5. Design	Podium
191	InSAR as a Complementary Technology for Monitoring Programs of Tailings Storage Facilities and Waste Piles	Giacomo Falorni, Sara Del Conte, Nora Toro, Alain Boudreau	TRE ALTAMIRA, Canada	2. Technologies	Podium
193	Tailings dam safety: is waste rock coming to the rescue?	Anton Bain, Moseli Motselebane, Timothy Gardner, Caius Priscu	Anglo American, South Africa Anglo American, Chile Anglo American, Canada	5. Design	Podium
196	Human Factors: Can we learn from avalanche incidents and apply the findings to tailings and mine waste?	Lucy Philip	Stantec, Canada	1. Management	Podium
197	High Performance Fine Tailings Dewatering with Hydrated Lime Slurry	Ben Mosher, Nikolas Romaniuk, Jesse Fox, Narain Hariharan, Jared Leikam, Mike Tate	Graymont, U.S.A. Graymont, Canada Texas A&M, U.S.A	2. Technologies	Podium
199	An Alternative Tailings Deposition System for Uranium Tailings	Matt Treinen, USA Erik Ketilson, Jon Aydtt, Justin Jacobs	Paterson & Cooke USA, Ltd, SRK Consulting (Canada) Inc. Orano Canada, SRK Consulting	6. Case Histories	Podium
203	Laboratory Methods Used to Design Effective Mine Tailings Dust Management Programs	Bryce Uytiepo, Michael Raab, Robert Greifzu	SUEZ Water Technologies Solutions, USA	3. Environmental	Podium
206	Development of Tailings Management and Governance in a mining company in the People's Democratic Republic of Laos	Peter Jenner, Shaun Edwards	Phu Bia Mining Limited	1. Management	Podium
207	Hazard assessment of tailing dams slope instability by Finite Element analyses with stochastic parameter input	Stefano Utili, Marco Previtali, Riccardo Castellanza, Giovanni Crosta	Newcastle University, United Kingdom University of Milano Bicocca, Italy Dundee University United Kingdom	6. Case Histories	Podium

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208	Challenges of Completing Dam Break Analyses on Large (Copper) Tailings Dams	Raúl Norambuena, Eloy Santos, José Campaña	SRK Consulting, Canada Arcadis, Chile	6. Case Histories	Podium
209	The UNSATCON model for tailings deposition	Shunchao Qi, Paul Simms	Sichuan University, China Carleton University, Canada	5. Design	Podium
210	3D simulations of dam breach and deposition using viscosity bifurcation rheology	Étienne Parent, Paul Simms	Carleton University, Canada	2. Technologies	Podium
211	Design for transition from down-valley discharge of tailings to partial perimeter-discharge	David Accadia Peter Chapman Mark Longbottom	Golder, Australia OZ Minerals, Australia	6. Case Histories	Podium
216	Micrometer-Scale Characterization of Solid Mine Waste Aids in Closure Due Diligence	Bryn E. Kimball, Heather E. Jamieson, Robert R. Seal II, Agatha Dobosz, Nadine M. Piatak	INTERA Incorporated, Queen's University, Canada U.S. Geological Survey	2. Technologies	Podium
217	Effective Risk Management Controls for Tailing Storage Facilities	Zygi Zurakowski, Nicholas Brink, Lauren Meyer, Sam Abbaszadeh	Stantec, USA	1. Management	Podium
225	Stability buttress to mitigate observed change in design conditions	Christina Winckler, Kanyembo Katapa, Edwin Konrath, Tamara Johndrow	AECOM USA Freeport-McMoRan Inc., USA	6. Case Histories	Podium
228	Processes for the Closure Design of Greenfield and Brownfield Overburden Dump Sites	Monica Ansah-Sam, Julian McGreevy, Gord McKenna	Canadian Natural Resources Limited, Canadian BGC Engineering, Canada McKenna Geotechnical, Canada	6. Case Histories	Podium
229	Large Scale Tailings Filtration and Dry Stacking at Karara Magnetite Iron Ore Operation	Nelson Amoah	Karara Mining Ltd, Perth - Australia	6. Case Histories	Podium
230	Tailings Dam made redundant using Solid Bowl Centrifuge	Amol Chinchankar, Sunny Li	Alfa Laval Lund AB, Sweden Alfa Laval Australia Pty Ltd	5. Design	Podium
234	Laboratory and CPT U Characterization of Samarco Sand Tailings	Richard Dawson Andrew Burgin, Mathieu Wacowich, Jose Bernardo, Analisa Vasconcelos	Stantec Consulting Ltd., Canada Samarco Mineracao SA, Brazil		Podium

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30	Development of a Novel Flocculant for Oil Sands Tailings Remediation	Lizbeth Rostro, Orlando Castellanos Diaz, Paul A. Gillis, Wu Chen, Jason Tubbs	The Dow Chemical Company	3. Environmental	Poster
42	Comparative Analysis of the Post-Liquefaction Shear Strength of Cyclone Tailings obtained from SCPTu and Laboratory Testing – A Case Study	Brahian Román, Héctor Barriga, Abel Najarro	Mining and Environmental Group, Klohn Crippen Berger, Peru	7. Case Histories	Poster
65	Lime in Oil Sand Bitumen Extraction and Tailings Processes	S. Arnipally, A. Tang, G. Halferdahl, J.D. Scott, B. Ozum	Apex Engineering Inc., Edmonton, AB, Canada University of Alberta, Edmonton, AB, Canada	2. Technologies	Poster
74	The Value of Detailed Topographic Surveys for Consequence Classifications Using Dam Breach Assessments	Alex Halliday	Golder, Chile	5. Design	Poster
102	Tailings slurry thickening using Super Absorbent Polymers (SAPs) and parameters affecting the absorbency	Khadija El Mahboub, Tikou Belem, Mamert Mbonimpa, Abdelkabar Maqsoud, Nor el hoda Addi, Cyrille Ngandu Kabamba, Lotiyé Élysée Poudama, Jean-François Lemay	Université du Québec en Abitibi- Témiscamingue/RIME, Canada Collège Shawinigan/CNETE, Canada	2. Technologies	Poster
105	Governance implications for the post closure protection of tailings facilities in violent landscapes in Ghana	Kofi Kwakye Ameyaw	Forestry Commission/Institute of Environment and Sanitation Studies	1. Management	Poster
121	Flow control layer used to reduce water percolation in waste rock pile: Performance evaluation using a laboratory physical model	Abdeljalil Ait kouia, Abdelkabar Maqsoud, Bruno Bussière	UQAT-RIME, Canada	5. Design	Poster
144	Experimental and numerical analysis of a slurry consolidation test on tailings	Shriful Islam, David J. Williams, Marcelo A. Llano-Serna	The University of Queensland, Brisbane, Australia	5. Design	Poster
174	Probabilistic assessment of the seismic pseudostatic coefficient in mining projects	Jorge Macedo, Gabriel Candia	Georgia Institute of Technology, United States University of Desarrollo, Chile	5. Design	Poster
175	Projecting changes to future extreme precipitation events for the design of tailings facilities	Stephen Clark P.Eng., Mary-Jane Piggott	Klohn Crippen Berger, Canada	5. Design	Poster

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231	Assessment salt migration from compacted bauxite residue into a cover under ambient weather conditions	Wenqiang Zhang, Chenming Zhang, Ximing Lei, Yuyang Zhu, Sebastian Quintero, David Williams, Mike O'Neil	School of Civil Engineering The University of Queensland Brisbane Qld 4072 Australia"	7. Case Histories	Poster
232	Application of post-drainage technology for tailings dams	Liu Ning	Huaye Company, China		Poster
233	Canada's Oil Sands Innovation Alliance (COSIA) Call for 2019 Tailings Research Proposals	Qi Liu, A. Junaid	Research Working Group (RWG), COSIA		Poster
236	Using oligochaete worms to enhance dewatering and strengthening of oil sand tailings	Miguel de Lucas Pardo	Deltares, Netherlands	7. Case Histories	Poster
237	Using Algae as Cheap and Efficient Flocculation Agent to Quickly Obtain Clear Water Columns at Pit Lakes.	Miguel de Lucas Pardo	Deltares, Netherlands	7. Case Histories	Poster
238	Remediation of oil sand tailings with subsequent removal of excess Me ²⁺ ions	Miguel de Lucas Pardo	Deltares, Netherlands	7. Case Histories	Poster