

Preliminary Technical Program

Time Zone Santiago, Chile. GMT -3 | English-Spanish-Portuguese Interpretation Available in all Technical Sessions

Tuesday, September 29



The parallel technical sessions will begin at 8:30 a.m. on Tuesday, September 29.
The session distribution and times will be announced during the first week of September.

INAUGURAL CEREMONY

Welcome Words

18:20

Mimy Mackenzie, Conference and Publications Manager, Gecamin, Chile
Hugo Quelopana, Tailings 2026 Program Director; Engineering Manager, Gestiona Consultores, Chile
James McPhee, Tailings 2026 Co-Organizer, Professor, AMTC, Universidad de Chile
Álvaro Videla, Tailings 2026, Co-Organizer, Director, Departamento de Ingeniería de Minería, Pontificia Universidad Católica de Chile
Guilherme Gomes, Tailings 2026 Co-Organizer, Professor, Universidade Federal de Ouro Preto, Brazil
Linda Figueroa, Tailings 2026 Co-Organizer, Professor, Tailings Center, Colorado School of Mines, USA

Opening Talk

19:00

“Built to Last: Long-Term Governance and Stewardship of a Tailings Management System”

Katie Kruger, Manager of Tailings, Crushed Leach, and Water Freeport-McMoRan, USA

19:30



Welcome Reception

Wednesday, September 30

PLENARY SESSION 1

ENG

11:00

"Beyond Compliance: Implementing GISTM With a Focus on Effectiveness"

Scott Martens, Technical Director, Tailings and Geotechnical Engineering, Teck Resources, Canada

Teck

ENG

11:30

"Circular Mining at Scale: Transforming Tailings into Strategic Assets at Vale" (TBC)

Geraldo Paes, Corporate Geotechnical Director, Vale, Brazil (TBC)



PLENARY SESSION 2

SPA

12:20

"The Consolidated Mining Standard Initiative (CMSI): Unifying the Future of Tailings Management" (TBC)

Tabatha Chávez, Innovation Manager, International Council of Mining and Metals (ICMM), UK



SPA

12:50

"Breaking the Scale Barrier: Implementing Large-Scale Filtered Tailings to Improve Water Recovery and Geotechnical Stability"

Claudio Román, Principal Geotechnical Engineer, Ausenco, Chile



Thursday, October 1

PLENARY SESSION 3

11:00

SPA

"The GTMI: Strengthening the framework for an Independent Standard"

Jerónimo Covacevich, Head of Tailings and Processing Excellence, BHP, Chile



11:30

SPA

Title to be Confirmed

Designated by BGC Engineering



PLENARY SESSION 4

12:20

SPA

"Cerro Verde TSFs: Leading Water Recovery and Tailings Stewardship in the Region "

Liliana Gutiérrez, RTFE Manager (Responsible Tailings Facility Engineer), SM Cerro Verde, Freeport-McMoRan, Peru



12:50

SPA

"From Monitoring to Decision-Making: Advancing Integrated Tailings Management Across Operations Confirmed" (TBC)

Silvana Dal Pozzo, Tailings Manager, Antofagasta Minerals, Chile (TBC)



Received Articles

(197 articles as of June 11)

Represented Countries (18): Argentina, Australia, Brazil, Canada, Chile, Cyprus, Denmark, France, Germany, Peru, Poland, Saudi Arabia, South Africa, Spain, Suriname, Sweden, UK and USA

GEOTECHNICS AND DAM SAFETY

(53 articles)

- (A01) Stress Paths, Time Effects, and Monitoring Interpretation in Tailings Facilities**
Priscilla Nelson, Colorado School of Mines, USA
- (A11) Lessons Learned from the Design of Drainage Systems in Tailings Dams: An Approach to Dam Safety**
Pablo Valdés and José Luis Illanes, ARDUM Ingeniería, Chile; and Enrique Siu, INGEOCONTROL, Chile
- (A26) Challenges and Opportunities in Coarse Tailings: Pressuremeters and AI**
Rafael Martínez, José Quiroz and Maximiliano Jara, Pangea Geotecnia, Chile
- (A27) Seismic Response of an Earth-fill Dam to Crustal Earthquakes: A Parametric Study**
Edward Escudero, SRK Consulting, Peru; and C. Gonzales, Universidad Nacional de Ingeniería, Peru
- (A28) Influence of Construction Stages on the Settlement of Tailings Dams in PLAXIS 2D**
José León, Felipe Rojas and Denys Parra, Anddes, Peru
- (A32) Probabilistic Slope Stability Analysis of Tailings dams: A Case Study**
Brahian Román, Melannie Espinoza and Martín Villanueva, SRK Consulting, Peru
- (A42) Effect of Constitutive Model Selection on Trigger Analyses in Tailings Storage Facilities**
Franco Orabona, Universidad de Buenos Aires, Argentina; Nicolás Tasso, WSP Australia; and Felipe López, WSP, Argentina
- (A44) Performance KPI Evaluation Associated with the Tailings Storage Facility Embankment**
Humberto Collado, Rodrigo Valenzuela and Ignacio Pino, JRI Ingeniería, Chile
- (A45) Influence of the Damping Model on the Seismic Response of Tailings Dams**
Agustín Toro, Cristian Monje and Sebastián Maureira, WSP, Chile
- (A46) Numerical Effect of Including Vertical Seismic Motion in the Stress-Strain Analysis of a Tailing Dam**
Rodrigo Maluenda and Cristian Monje, WSP, Chile
- (A49) Evaluation of Strength Parameters in Soils and Tailings Based on EC7-2G Statistical Approaches**
Jonathan Ybáñez, Felipe López and Lisandro Roldán, WSP, Argentina
- (A50) Assessing the Correlation Between Seismic Intensity Measures and Tailings Dam Displacements: A Numerical Study**
Nicolás Di Giovanni, Felipe López, Nicolás Tasso, Marcelo Martínez and Jonathan Ybáñez, WSP, Argentina
- (A60) Impact of Open-Pit Blast-Induced Vibrations on Adjacent TSF Performance: Field Monitoring and Analytical Assessment at Rosebel Gold Mines**
Andra Putra and Cecilia Mata, Zijin Rosebel Gold Mines, Suriname

14. (A64) Scaling Hydraulic Dewatered Stacking toward a Field Demonstration at Sossego: From UFOP to On-Site

Gustavo Belotto, Rafael Santos, Jean Lima, João da Costa, Henrique Guerzoni, José Costa, Romulo Reis, Jason Hall, Vale Base Metals, Brazil; and Ricardo Fiorotti, Universidade Federal do Ouro Preto

15. (A65) Effect of Gradation and Salinity on Density States of Saline Soils for Tailings Dam Foundation Assessment

Josefa Silva, Sergio Carrasco, Universidad Técnica Federico Santa María, Chile; and Gonzalo Suazo, GHD, Chile

16. (A66) Cyclic Resistance Characterization of Borrow Sands Using Cyclic Direct Simple Shear Test

Alan Reyes, Scarlet Frez, Matías Bravo-Zapata, Catalina Fuentes, Wendy Valenzuela and Héctor Fuentes, IDIEM, Chile

17. (A74) Alternatives Study: Copper Tailings Disposal System for a Greenfield Project in the Brazilian Amazon

Jean Lima, João da Costa, Henrique Guerzoni, Rafael Santos, Gustavo Belotto and José Costa, Vale Base Metals, Brazil; and Thiago Gomes and Elisa Silveira, DF+ Engineering, Brazil

18. (A75) Comparative Assessment of the Liquefied Strength Ratio $[(S)_{(u,liq)}/\sigma_{v0}^{\wedge}]$ from CPTu Correlations and Flow-Failure Case History Back-Analysis in Chilean Tailings Facilities

Matías Morales, Sergio Carrasco, Cristian Monje and Gonzalo Suazo, Universidad Técnica Federico Santa María, Chile

19. (A76) Estimation of the Site Effect for a Filtered Tailings Storage Facility and Its Influence on Physical Stability

Katherine Ascencio, Compañía Minera del Pacífico, Chile; and Paz Esparza, Valeria Miranda and Héctor Huenchulao, E-Mining Technology, Chile

20. (A80) Effect of Fines content on the Critical State Behaviour of Cycloned Tailings Sands

Pedro Mendoza, David Rodríguez, Jaime Tello and Jorge Chávez, WSP, Peru; and Franklin Olaya, Pontificia Universidad Católica del Perú

21. (A85) Comparative Analysis Between 2D and 3D Modelling of a Dam Cross-Section

Mateus do Libano, Fernanda Martins and Danielle Araújo, Vale, Brazil

22. (A88) Influence of Relative Density on the Cyclic Behaviour of a Sand-Like Foundation in a Tailings Dam

Víctor Puyen, Sebastian Farfán, Brenda Carrasco and Pedro Mendoza, Ausenco, Peru

23. (A94) Managed Access to Tailings Dams Under Emergency Level 2

Danielle Araújo, Mateus do Libano, Fernanda Martins, Alexandre Cristino and Atila dos Santos, Vale, Brazil

24. (A97) Chemical Environment Effects on the Long-Term Performance of Geogrids in Tailings Applications

Lizeth Ardila and Cristina Schmidt, HUESKER, Brazil; and Oliver Detert, HUESKER, Germany

25. (A98) Defining a Minimum Viable Solution (MVS) for Integrated Geotechnical Monitoring Systems Aligned with GISTM Requirements

Danielle Menezes, BHP, Brazil

26. (A101) Stochastic Characterization and Probabilistic Stability of a Tailings Dam on Lacustrine Clay

Francesco Franco and Denys Parra, Anddes, Peru

27. (A105) Quantified Geochemical Depletion: A Mass-Domain Reading of Humidity Cell Tests for Mine Closure

Marcelo Rocco, Jesús Costa and Mckevin Canicoba, Anddes, Peru

- 28. (A106) Influence of Crest Width on the Stability of a TSF With Centerline-Raise Dam**
Charbel Chapana, WSP, Chile; and José Ale, WSP, Peru
- 29. (A111) Static and Seismic Slope Stability Under Uncertainty: A Probabilistic Performance-Based Design Approach for a Tailings Embankment**
Alan Figueroa, Sebastián Araya and Dennis Raddatz, Stantec, Chile
- 30. (A112) Deviations in Relevant Geotechnical Activities and Their Impact on Quality**
Luis González and Rodrigo Ramírez, WSP, Chile; and María Hernández, WSP, Argentina
- 31. (A113) Normalization of Deviation and Other Human Errors Affecting the Safety of Tailings Storage Facilities**
Luis González and Rodrigo Ramírez, WSP, Chile; and María Hernández, WSP, Argentina
- 32. (A119) Effective-Stress Modeling Liquefaction-Driven Deformations in a TSF and an Embankment: Insights from Two (Mw 5.7 and 9.0) Earthquakes Case Histories**
Alfonso Cerna, Osmar Charca, Zana Karimi and Lisa Yenne, AECOM, USA; and Katerina Ziotopoulou, University of California, Davis, USA
- 33. (A121) Strength Gain of Fine Tailings Resulting from Secondary Compression**
Iván Contreras, Barr Engineering, USA
- 34. (A125) Not Just Subduction: Integrating Active Faults into Seismic Hazard Assessment for Tailings Storage Facilities in the Central Andes**
Carlos Benavente, BE. Earthwise, Peru; and Alan Hull, Hull Seismic Review, USA
- 35. (A133) Bayesian Inference of Critical State Line and Shear Modulus Parameters in Silty-Sand Tailings**
Alexandre Vilaça and Guilherme Gomes, Federal University of Ouro Preto, Brazil; Bruno Delgado, WSP, UK; and Matheus Rabelo, Independent Engineer, Brazil
- 36. (A135) High-Confinement Response of Copper Tailings: A Review of Experimental Evidence and Critical State Interpretation**
Sergio Villalobos, Pares & Alvarez, Chile; and Nilo Consoli and Lucas Festugato, Universidad Federal de Río Grande del Sur, Brazil
- 37. (A136) Evaluation of 3D Effects on the Factor of Safety of Translational Failures in a Heap Leach Pad**
Víctor Rosales, Mario Paico and Waldo Huallanca, Anddes, Peru
- 38. (A145) Numerical Modeling of the Decharacterization of an Upstream-Raised Tailings Storage Facility**
André Lima and Ana Luiza de Oliveira, TPF Engenharia, Brazil; and Jeanne Castro, Vale, Brazil
- 39. (A148) Assessment of Flow Liquefaction Susceptibility in Mine Tailings Using State Parameter and CPTu Data**
Miguel Bernilla, Miguel Santaria, Luis Neyra, Ronald Landa and Denys Parra, Anddes, Peru
- 40. (A154) Validation of Calibration and Cross-Verification of Electric Piezometers during Reinforcement Works of an Iron Ore Containment Dike in the Quadrilátero Ferrífero Region – Minas Gerais, Brazil**
Jarleson Andriao, Nathalia Sena and Rodrigo Peres, Vale, Brazil
- 41. (A161) Integrated Geotechnical Characterization for Risk-Based Tailings Management in Chile**
Diego Cáceres, Mauricio Vásquez, Florencia Henríquez and Camila Lara, Ingemars Ingeniería, Chile
- 42. (A166) Performance-Based Design in the Decommissioning of Tailings Dams**
Juliana Meza, Valeria Armigliato, Nelson Motta, Waldemar Felitti, AECOM, Brazil; and Masood Kafash, AECOM, USA

- 43. (A167) Mechanical Behavior of Processed Rare Earth Tailings Based on Triaxial Testing**
Domenico Gontijo, João Caixeta, Ricardo Almeida, Daniel Fortuna and Frederico Oliveira, WSP, Brazil; Alexandre Vilaça, Federal University of Ouro Preto, Brazil; and Danilo Eloi, WSP, Canada
- 44. (A171) Combined Drained and Undrained Shear Strength Envelope for Compacted Filtered Tailings at High Confining Stresses**
Hainer Inga, Raúl Malacas, Erika Pariona and Denys Parra, Anddes, Peru; and Stefania Oliveira and Sabrine Rodrigues, BVP Geotecnia e Hidrotecnia, Brasil
- 45. (A173) The Role of Historical CPTu Data in the Interpretation of Evolving Tailings Deposits**
Darlis Devise, Concremat, Brazil; Maria Ribeiro and Felipe Castro, Vale, Brazil; Diego Babiss and Helena Nierwinski, Federal University of Santa Catarina, Brazil
- 46. (A175) Shot-Tailings: Reuse of Tailings for Dust Control and Progressive Closure**
Jorge López, Luis Morales and Álvaro Gutiérrez, Capstone Copper, Chile
- 47. (A176) Can CPT See Fine Brittle and Sensitive Layers? On The Detectability of Thin Weak Laminae in Varved Glaciolacustrine Foundations**
Mo Shahsavari and Alistair James, GeoXtra Solutions, Canada; and Fahimeh Naftchali, NewFields, Canada
- 48. (A177) Comparison between Monte Carlo Simulation and Latin Hypercube Sampling for the Probabilistic Assessment of Slope Stability**
Nilthson Noreña, Carlos Meza, Juliana Meza and Jimena López and Celso Romanel, Pontifical Catholic University of Rio de Janeiro, Brazil
- 49. (A179) Brittleness Assessment of Cycloned Tailings Sand Based on Triaxial Tests within the Critical State Soil Mechanics (CSSM) Framework**
David Rodríguez, Pedro Mendoza, Carmen Ayquipa and Jorge Chávez, WSP, Peru; and Franklin Olaya, Pontificia Universidad Católica del Perú
- 50. (A192) Effect of Strength Parameter Uncertainty on Tailings Dam Stability**
Thiago Dib, TBretas Consultoria, Brazil; and Isabele Bissoli, Ausenco, Brazil
- 51. (A193) Yield Stress and Structural Reversibility of Iron Ore Tailings: A Multi-Test Rheological Approach**
Neemias Dias, Patrício Pires and Edson Soares, Federal University of Espírito Santo, Brazil
- 52. (A199) Water Retention Behaviour of Compacted Iron Ore Tailings: Effects of Density State and Fine Content**
Luís Júnior, Jhonatan Borges and Tálita Nola, Federal University of Ouro Preto, Brazil; João Silva, Vale, Brazil; and Roberto dos Santos, Federal University of Viçosa, Brazil
- 53. (A206) Comparative Evaluation of the Casagrande and Cone Penetration Methods for Determining the Liquid Limit of Mining Tailings**
Anna Couto, Raianny Almeida, Kayky Lucas, Luís Júnior, Jhonatan Borges and Tálita Nola, Federal University of Ouro Preto, Brazil; João Silva, Vale, Brazil and Roberto dos Santos, Federal University of Viçosa, Brazil

GEOTECHNICAL ENGINEERING, DESIGN AND CONSTRUCTION OF WASTE ROCK DUMPS, STOCKPILES, AND MINING STOCKPILES

(11 articles)

- (A47) Effect of Loading Protocol and Holding Time on Particle Breakage of Copper Tailings Sand Under High-Stress 1D Compression**
Mauricio Vásquez and Sergio Carrasco, Universidad Técnica Federico Santa María, Chile
- (A63) Hydrogeotechnical Modeling of a Waste Rock Pile in an Open Pit in the Quadrilátero Ferrífero Region, Brazil**
Hugo Alvarenga, Juan Huang, Marina Ribeiro, Water Services and Technologies, Brazil; and Rinaldo Afranio, Fabiane Ferrer, Camila Queiroz, Wesley de Souza and Frank Pereira, Vale, Brazil
- (A77) Construction Quality Assurance (CQA) in Tailings Storage Facilities**
Gustavo Vásquez, Camilo Cornejo, Matías Valenzuela and Gonzalo Jara, Stantec, Chile
- (A82) Tailings Dam Post-Decharacterization Stability: Transient Flow and Numerical Limit Analysis**
Carlos Conegundes, Guilherme Gomes, Universidade Federal de Ouro Preto, Brazil; and David Juajinoy, University of São Paulo, Brazil
- (A93) Technological Management of a Filtered Tailings Pile Located in the Iron Quadrangle: Challenges and Opportunities**
Rafaela Saar, Rodney Silva, Vera Nascimento and Elder Sant'anna, Vale, Brazil; and Wallace Barros, BVP, Brazil
- (A146) Evaluation of Seismic-induced Liquefaction Using Equivalent Signal Parameters in Contractive Soils**
Mario Paico, Víctor Rosales and Ronald Landa, Anddes, Peru
- (A153) Overview of Hypothetical Failure Studies for Filtered Tailings Stockpiles, Waste Rocks and Co-Disposal**
João Tavares, Vale, Brazil
- (A178) Co-disposal and Shared Disposal of Waste Rock and Tailings: Operational and Design Implications**
Talita Bergamaschi and Lucas Machado, HIDROBR, Brazil
- (A191) Heap Leach Liners: Laboratory Testing and Design Challenges**
Keda Cao and Alistair James, NewFields, Canada
- (A194) Validation of Failure Surfaces of a Heap Leach Pad in the Peruvian Andes Using LEM and SSR Method**
Jimmy Tapia, Jean Minaya and Diana Machuca, Universidad Nacional de Ingeniería, Peru
- (A196) Influence of Modified Cam Clay and Hardening Soil Models on Failure Prediction of Heap Leach Pad by 3D Shear Strength Reduction Method**
Jimmy Tapia, Jean Minaya and Diana Machuca, Universidad Nacional de Ingeniería, Peru

RHEOLOGICAL AND CHEMICAL ASPECTS

(4 articles)

- (A116) The Rheological Modification Module: Maximizing Efficiency in the Transport of High-Density Tailings**
Mauricio Villanueva, Sergio Ríos and Eduardo Salas, Southern Cone Technology, Chile; and Dragomid Araya, SNF Chile

- (A138) Assessing the Potential of Salt Water to Reduce Sodium Hydroxide Demand in Alkali-Activated Tailings for Backfilling**
Mohsen Moeenian Far, Amin Hekmatnejad and Iván Navarette, Estefanía Loyola, Álvaro Videla, Pontificia Universidad Católica de Chile
- (A163) Chemical Improvements for Cycloned Sand Drainage in Tailings Dams: Comprehensive Assessment and Strategies for Large-Scale Operation**
Claudio Vásquez, Andrei Chaura, Becky Rodríguez and David Romo, Paterson and Cooke, Chile
- (A184) Copper Mining Tailings in Portland Cement: Technical Feasibility and Regulatory Challenges**
Roberto Romano, Markus Rebmann, Marcel Maciel, Mariana Lima, Alexandre Vidal, and Rafael Pileggi, University of São Paulo, Brazil

HYDRAULICS AND TRANSPORT

(6 articles)

- (A23) Application of FLOW 3D Tailings Module for TSF Failure Hydrographs and Volume Predictions**
Adolfo de Resende, WSP, Australia
- (A61) Assessment of USPED Model for Erosion and Deposition Mapping in Mining Waste Dumps**
Bibiana Soares and André Rodrigues, Federal University of Minas Gerais, Brazil; Keila Dourado, Guilherme Rodrigues, Douglas Rodrigues, Barbara Batista and Antonio Fernandes, Vale, Brazil; and Francisco Rodrigues, Progen, Brazil
- (A115) Development of a Rainfall Simulator for Erosion Studies in Mining Areas**
Jorge Luis Tarqui, Cristina Barreto, Bibiana Soares and Edna Viana, Federal University of Minas Gerais, Brazil; and Keila Dourado, Francisco Rodrigues, Douglas Rodrigues, Guilherme Rodrigues, Barbara Batista and Antônio Fernandes, Vale, Brazil
- (A159) Tailings Dam Wall Raising: Integrated Solutions for Extreme Fluid Pressures**
Iván Donoso and Cristian Castillo, Fastpack, Chile
- (A183) When CFD Adds Value to Tailings Hydraulic Design: Four Practical Cases**
Leonardo Olavarría and Pablo del Río, Paterson & Cooke, Chile
- (A201) Case Study: Paste Tailings Transport Optimization, Model Calibration and Concentration Sensitivity**
Cristian Giner, Gonzalo Laciari, Cristian Bertolo and Alexander Manos, Knight Piésold, Argentina

SEEPAGE, WATER CONTROL AND WATER MANAGEMENT

(9 articles)

- (A12) Seepage, Water Control and Water Management in Tailings Facilities for Operational Continuity**
Pablo Bustamante, MARA Project, Glencore, Chile
- (A20) Jet Grouting Seepage Barriers: An Alternative for Tailings Storage Facilities**
Macarena Ayarza, Pilotes Terratest, Spain; and Christian González, Pilotes Terratest, Chile
- (A29) Accelerated Degradation of Steel Pipes Due to Seepage Leachates**
Francisco Scheihing, Cristián Cortés and Ana Ramos, Ausenco, Chile

4. **(A35) Optimizing Tailings Management of Large TSFs with Implementation of Mechanical Consolidation and Dewatering**
Oscar Santiago and William McAdam, Phibion, Australia; and Rafael Menezes, Phibion, Chile
5. **(A36) Application of Oxygen and Deuterium Isotopes in the Evaluation of Groundwater Flow in the Foundation of Tailings Storage Facilities**
Cleveland Silva and Lucas dos Santos, Alcoa, Brazil
6. **(A55) Rainfall Infiltration in a Waste Rock and Tailings Pile: Case Study in Minas Gerais, Brazil**
Daniel Henriques, Henrique Mendes, Gabriel Pereira, Ana Yoda, Tractebel Engie, Brazil; and Isabella Viel and Luiza Morais, Vale, Brazil
7. **(A58) Thickener Retrofits: Improving Performance of Existing Equipment**
Fred Schoenbrunn, Schoenbrunn Consulting, USA; and James Chaponnel, GKD, USA
8. **(A68) Evaluation of Infiltration Zones and Drainage Performance Using 3D Transient Modeling in a TSF**
Roxana Ugaz, Erick Alvarado, Arnold Quispe and Aldair Quispe, Water Waste and Land, Australia
9. **(A186) Mineralogical Selection of Rocks for Internal Drainage in Tailings Structures**
Isabele Bissoli and Wanessa Silva, Ausenco, Brazil; Leonardo Diamantino and Rogério Ribeiro, University of São Paulo, Brazil; and Thiago Dib, TBretas Consultoria, Brazil

DESIGN AND STUDIES OF TAILINGS STORAGE FACILITIES (CONVENTIONAL, THICKENED, PASTE, FILTERED AND CENTRIFUGED)

(20 articles)

1. **(A05) Beyond Filter Presses: Exploring Sustainable Alternatives for Tailings Dry Stacking**
Timo Dobler and Jürgen Hahn, Bokela, Germany
2. **(A07) Filtered Tailings: Risk Reduction Versus Risk Transfer**
Nelson Amoah, SLR Consulting, Australia
3. **(A17) Stress-Strain Response to Paste Tailings Deposition Sequences: DEPIM Stage II Case Study**
Nicolás Rodríguez, Grupo Minero Las Cenizas, Chile; Ricardo Valdebenito, Emmanuel Fuentealba, Gustavo Valdebenito, RVIA, Chile; and Adeline Delonca, Universidad Técnica Federico Santa María, Chile
4. **(A24) Analysis of the Mechanical Response of Compacted Iron Ore Tailings**
Diego López, Júlio Azevedo, Sergio Marques, Nilo Consoli and Lucas Festugato, Universidade Federal do Rio Grande do Sul, Brazil; and Lessandro Franco, Marcus Dias, Dieggo dos Santos and Rodrigo Marinario, Vale, Brazil
5. **(A43) Applying Multiple Accounts Analysis for Tailings Storage Facility Site Selection**
James Alcorn, Masood Kafash and Braden Error, AECOM, USA
6. **(A53) Comparison of Stress-Strain and Limit Equilibrium for a Waste Rock and Tailings Pile in Brazil**
María Borba, Daniel Henriques, Ana Yoda and Douglas Coelho, Tractebel Engie, Brazil; and Bruna Braga, Vale, Brazil
7. **(A57) Cyclic Liquefaction Assessment for a Tailings and Waste Rock Pile Foundation in Brazil Based on SPT**
Daniel Henriques, Maria Borba, Ana Yoda, Douglas Coelho, Tractebel Engie, Brazil; and Bruna Braga, Vale, Brazil
8. **(A59) Hypothetical Failure: A Tailings and Waste Rock Stack Break Study in the Iron Quadrangle, Brazil**
Daniel Henriques, Maria Borba, Gabriel Pereira, Ana Yoda, Douglas Coelho, Tractebel Engie, Brazil; and Bruna Braga, Vale, Brazil

- 9. (A71) Advances in Sustainable Tailings Management: The Synergy Between Polymerization and Dewatering in Closed Systems (Geotextile Tubes)**
Danilo Sampaio, Huesker, Brazil; and Eduardo Guanaes and Denise Urashima, Federal Center for Technological Education of Minas Gerais, Brazil
- 10. (A90) Review on the Evolution of the Implementation and Scaling of Filtered Tailings Technology**
Carlos Cacciuttolo and Sergio Avendaño, Knight Piésold, Chile
- 11. (A95) CPTu-Based Vs Prediction in Tailings: A Comparative Study**
Rafael Piton, Ezequias Oliveira, Darlis Devise, Felipe Castro, Jaqueline Bertella, Vale, Brazil; Robert Nagai, GWS Engenharia, Brazil; and Helena Nierwinski, Federal University of Santa Catarina, Brazil
- 12. (A102) Self-Consolidation Effects in Unsaturated Filtered Tailings**
Miguela Cabañas, JRI Ingeniería, Chile
- 13. (A110) First Industrial Pilot Tailings Filtration Plant Constructed at 4,700 m.a.s.l.**
Carlos Meléndez, Miguel Ángel Moreno and Jorge Carranza, Minera Chinalco, Peru
- 14. (A130) Advancing Tailings Innovation: Global Trials, Emerging Technologies and Future Pathways**
Louise McNab and Johan Boshoff, Gold Fields, Australia
- 15. (A132) Assessment of CPT-Based Soil Classification in a Partially Saturated Tailings Storage Facility**
Santiago Guivin and Daniel Jauregui, SRK Consulting, Peru; and Camilo Morales, SRK Consulting, Chile
- 16. (A155) El Abra Expansion Project: Challenges in the Tailings Management System**
Ricardo Yáñez and Claudio Cifuentes, Freeport McMoRan, Chile
- 17. (A160) From Waste to Resource: Technologies for Zero Tailings Deposition**
Waldo Aracena, Florencia Middleton, Vreni Caro, Felipe Concha and Millaray Hernández, Centro de Investigación en Minería Sustentable JRI, Chile
- 18. (A181) Runout Calibration of a Failure Event Occurred in a TSF Using MPM and Mobilized Friction Reduction**
Henrique Mendes and Fernando Azevedo, Ausenco, Brazil
- 19. (A187) Enhancing Filtered Tailings Implementation via Comprehensive Upstream Process Integration**
Juan Ccarita, Jord International, Peru; and Mario Saavedra and Oliver Whatnall, Jord International, Australia
- 20. (A202) Multiple Account Analysis of Tailings Technologies to Define the Next TSF Stages**
Cristian Bertolo, Gonzalo Laciari and Cristian Giner, Knight Piésold, Argentina

TAILINGS IN COMPLEX ENVIRONMENTS

(8 articles)

- 1. (A16) Plastic Concrete Cutoff Walls for Seepage Control in High-Permeability Soils: A Case Study in Tailings Dams**
Christian González and Felipe Soto, Pilotes Terratest, Chile
- 2. (A19) What Remains: Disaster Risk and Emergency Preparedness in a Chilean Mining Town**
Nigel Wight, SMI Chile; and Jill Harris, Angelica Andrade and Deanna Kemp, CSRM, Sustainable Minerals Institute, University of Queensland, Australia

3. **(A41) Circular Economy Pathways for Tailings and Waste Rock: From Environmental Liabilities to Resources**
Jéssica Castro, Sérgio Machado and Marco Antonio Casaes, Vale Base Metals, Brazil
4. **(A169) Tailings Storage Facilities in High-Rainfall and Seismic Environments: Design, Construction, Operational Challenges and Practical Approaches**
Evelyn Arredondo, Sebastián Yáñez, Matías Silva and Gonzalo Suazo, GHD, Chile; and Jasna Zúñiga, GHD, Australia
5. **(A182) Tailings Stack Influence on a Shallow Tunnel in Soft Rock: Study in the Brazilian Lithium Valley**
Daniel Henriques, Natália Silva, Rian Porto, Bruno Chaves, Ana Lúcia Yoda, Tractebel Engie, Brazil; and Gabriel Dimitrov, Lithium Ionic, Brazil
6. **(A197) Filtered Tailings at Industrial Scale: Global State of the Art, Technology Limits and Strategic Decisions**
Edgar Quiroz, Frame, Peru
7. **(A198) Filtered Tailings at Scale: Strategic Decisions in Complex Environments**
Edgar Quiroz, Frame, Peru
8. **(A200) Operational Challenges of Stacking Filtered Tailings at Extreme Altitude Conditions: Salares Norte; Ramp Up Experience**
Carol Vásquez, Néstor Vargas and Karina Menares, Salares Norte, Gold Fields, Chile

MONITORING, INSTRUMENTATION AND SURVEILLANCE TECHNOLOGIES

(15 articles)

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Eduardo Diniz and María Alonso, Worldsensing, Brazil; Eduardo Castro and Alan Rodrigues, Tecwise, Brazil; and Tiago da Silva, Vale, Brazil
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Skevi Perdikou, Vipin Maurya, Bala Raju and Andrew Lees, GEOFEM, Cyprus

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