

# Technical Program

△ **Version as of June 10, 2026.**

Important: This program is subject to change, including updates to schedules, ballrooms, and presentations. Please review the latest available version prior to the Congress.

Thursday Jul 02

10:00-12:00 Pre-Congress Activities



ONLINE

Virtual Technical Course 1 | Free Access for Registered Conference Attendees

10:00-12:00

SPA

**Flotation Process Variables in a Complex Mineralogy Context**

**Leopoldo Gutiérrez**, Professor, Department of Metallurgical Engineering, Universidad de Concepción, Chile

Fri Jul 03

10:00-13:30 Pre-Congress Activities



ONLINE

Virtual Technical Course 2 | Free Access for Registered to the Conference

10:00-13:30

SPA

**Tailings Circularity and Water Resources in Mining: From Separation to Emerging Technologies**

**Juan P. Ibáñez, Jesús Casas, Martha Claros y Yahaira Barrueto**, Professors, Department of Mining, Metallurgical, and Materials Engineering, Universidad Técnica Federico Santa María, Chile

Tuesday Jul 07

Technical Sessions



## BALLROOM A

## BALLROOM B

## BALLROOM C

## ▶ SESSION 1

## Session 1: Dewatering and Water Quality

## ▶ SESSION 2

## Session 2: Geometallurgical Modelling and Recovery Prediction

## ▶ SESSION 3

## Session 3: Comminution Circuits and Ramp-Up Value

08:40

SPA

## Advances in Feed Well Technology and Implications for Thickener Sizing

Diego Rubio, Roytec Global, Chile; Peter Sampson, Roytec Global, United Kingdom and Alex Krassnokutski, Krassno Consulting, South Africa

SPA

## Development of a Geometallurgical Algorithm for Rougher Recovery in a Copper Concentrator Plant

Adriela Osses, Alex Rey and Cristian Garrido, Fluor, Chile

SPA

## Enhancing SAG Mill Start-Up and Performance with Hybrid Liners: Solution for Modern Operations

Ernesto Mori and Jennifer Giron, Tega Industries, Chile and Panama; Mark Sherman, Fluor, Canada

09:00

ENG

## Application of Antiscalant Agent for the Lime Dosing Line at Salobo Plants 1 and 2

Renan Sousa, Daiane Silveira, Ricardo Melo and Igor Carneiro, Vale Base Metals, Brazil; Ana Paula Rufino and Carlos Castro, Ecolab, Brazil

ENG

## Knowledge-Guided Early-Stage Geomet Modelling: ML and Multivariate Recovery Simulation

Rob Downard, Ryan Barnett and John Manchuk, GeologicAI, Australia and Canada

SPA

## Overcoming Grinding Constraints Through Hydrocyclone Battery Modernization at the Talcuna Concentrator

Enzo Martínez and Felipe Varela, Compañía Minera San Geronimo, Chile and Claudio Araya, FLSmidth, Chile

09:20

SPA

## Impact of Water Quality in Cloth and Filter-Plate Washing on Copper Concentrate Filtration Capacity

Juan Pablo Lagos, Felipe Araya and César Pedrero, Wood, Chile

SPA

## Geometallurgical Recovery Estimation from Liberation Grade

Trinidad Salas, Alex Rey and Cristian Garrido, Fluor, Chile

SPA

## Beyond SABC: Alternative Comminution Circuits Challenging the Traditional SABC Flowsheet

Juan Becker, Catalina Henríquez and Sergio Lagos, Ausenco, Chile

09:40

SPA

## Conditioning the Historian Industrial Data for Adaptive Model Predictive Control in High-Rate Thickeners

Camilo Mejías, Hibring, Chile; Javier Sierra and Scott O'Brien, McLanahan Corporation, Chile and USA; Catalina Becerra, Universidad de Concepción, Chile

ENG

## A Chemical Data-Driven Geometallurgical Model for Apatitic Phosphorus and Flotation Response

Felipe Teixeira, Ausenco, Brazil; Natal Junio Pires and Mario Junior, Mining Engineer Department, CEFET-Araxá, Brazil

ENG

## Best Laid Plans: Key Drivers Affecting the Ramp-Up of Comminution Circuits

Rajiv Chandramohan, Campbell Haines and Greg Lane, Ausenco, Canada and Australia

10:00

SPA

## Defining Moisture Limits for Dry Processing

Luis Salinas, Department of Metallurgical Engineering, University of Concepcion, Chile; Joshua Rasera, Tom Powell, Stephen Neethling and Jan Cilliers, Department of Earth Science and Engineering, Imperial College London, United Kingdom

SPA

## Incorporation of Geometallurgy and Economics into the Design of Flotation Circuits under Multiple Uncertainties

Diego Valle-Escobar, Yesica Botero and Luis Cisternas, Department of Chemical and Mineral Process Engineering, University of Antofagasta, Chile

ENG

## Unlocking Hidden Capacity in an SABC Grinding Circuit: The Sossego Case Study

Gabrielle Sorte, George Aragão and Carolina Souza, Vale Base Metals, Brazil

10:20 - 11:00 **Coffee-Break and Poster Session**

▾ SESSION 4

**Session 4: Industrial Flotation Measurement and Modelling**

11:00

SPA

**Real-Time Optimization in the Rougher Flotation Circuit at Collahuasi: Copper Recovery Improvements**

Marcelo Rodríguez and Sebastián Villareal, Compañía Minera Doña Inés de Collahuasi, Chile; [Sebastián Samur](#), and Cristian González, IntelliSense.io, Chile

▾ SESSION 5

**Session 5: Critical Minerals, Tailings Reprocessing and Mineral Economics**

SPA

**State of the Art in Recovery of Encapsulated Cobalt from Pyrite and Copper Sulfide Tailings**

Jorge Ipinza, Millaray Hernández, Camilo Araos, Patricia Fernández and Waldo Aracena, Centro de investigación en minería sustentable, CIMS-JRI, Chile

▾ SESSION 6

**Session 6: Grinding Energy, Media and Ball Mill Performance**

SPA

**Application of the Ball Mill Abrasion Test (BMAT) in Grinding Media Selection: HiCr Cast Balls**

[Carlos García](#) and Hamid Pourasiabi, Molycop, Australia and USA

11:20

SPA

**Comparative Assessment of Gas Dispersion in Industrial Flotation Technologies**

Luis Vinnett, Juan Yianatos, Francisca San Martín and Ricardo Nanculef, Universidad Técnica Federico Santa María, Chile; Duong Hoang and Ahmad Hassanzadeh, Maelgwyn Mineral Services, United Kingdom

SPA

**Can Substitutes Supply the Looming Global Copper Shortages?**

[Martin Lynch](#) and Rick Valenta, Sustainable Minerals Institute, University of Queensland, Australia

ENG

**Preliminary Results of a Specific Energy Model for AG/SAG Mills using the Geopyöra Index**

[Leonardo Lara](#) and Marcos Bueno, Geopyöra, Finland and Markku Ohenoja, Environmental and Chemical Engineering Department, University of Oulu, Finland

11:40

SPA

**Residence Time Distribution for the Performance Evaluation of Flotation Cells**

Francisco Diaz and [Juan Carlos Salas](#), Trazado Nuclear e Ingeniería, Chile

ENG

**Synthesis of Zirconia from Tailings of Alluvial Gold Mining in the Bajo Cauca Region of Colombia**

[Carlos Quesada](#), Gustavo Neira and Hugo Estupiñan, Dept. Materials and Minerals, Universidad Nacional de Colombia

SPA

**From Site-Specific Models to Probabilistic State Estimation for Grinding Media Wear**

[María José Astudillo](#), Paul Shelley and Yufan Mu, Molycop, Chile and Australia; Alejandro Ehrenfeld and Gonzalo Diaz, AMTC, Universidad de Chile and Pia Lois-Morales, Department of Mining Engineering, Universidad de Chile

12:00

SPA

**Operational Validation of Pressure-Based Jg and Gas Hold-Up Monitoring in Rougher Flotation Cells**

Jorge Sarzosa and Leopoldo Gutiérrez, University of Concepción, Chile; Francisco Melo, Compañía Minera Doña Inés de Collahuasi, Chile and Sergio Lagos, PSINet, Chile

SPA

**Role of Surface Condition and Mineralogy in the Flotation of Pyrite: Implications for Cobalt Recovery**

[Carolina Pérez](#), Carolina Becerra and Javier Jerez, El Teniente Division, Codelco, Chile and Luis Vargas, SGS Minerals, Chile

SPA

**Magnetic Trommels: Their Significant Contribution to Energy Efficiency in Conventional Ball Milling Applications**

[Jaime Sepúlveda](#), J-Consultores, Chile; Carlos Stipicic B., Carlos Stipicic V. and Alejandro Rodríguez, Polimin, Chile

12:20

SPA

**A Practical Framework for Modelling Industrial Flotation Recovery on a Size-by-Liberation Basis**

[Paulina Vallejos](#) and Juan Yianatos, Department of Chemical and Environmental Engineering, Universidad Técnica Federico Santa María, Chile

SPA

**Geopolitical Tensions and their Impact by Processing Routes: Costs and Products**

[Nicolás Rojas-Sáez](#), Joan Arratia and William Tankard, CRU Group, Chile and United Kingdom

ENG

**Power-Based Speed Control in Ball Mills to Reduce Energy Consumption and Improve Efficiency**

Ana Luisa Magalhães, Bruno Vieira Sousa, Vitor Teixeira, [Thiago Santos](#), Kesley Ribeiro, Francieli Giesi and Débora Chaves, Vale Base Metals, Brazil

12:40 - 14:10 **Lunch**

14:10-16:10 **Technical Sessions**  
BALLROOM A, B & C



## BALLROOM A

## BALLROOM B

## BALLROOM C

[!\[\]\(9a8373782c8e0007b8363c731473b178\_img.jpg\) SESSION 7](#) 
**Session 7: Industrial Flotation Case Studies**
[!\[\]\(1011928a9c3be735531fe2f61d08db20\_img.jpg\) SESSION 8](#) 
**Session 8: Advanced Mineral Characterization and Sampling Technics**
[!\[\]\(65ff3c1831adbf192b81e8810bbf5b94\_img.jpg\) SESSION 9](#) 
**Session 9: Mill Design, SAG/AG Simulation and Control**

14:10

SPA

**Optimization of Copper Recovery in Smelter Slags: An Experimental Analysis of Flotation at Chuquicamata**

Pablo Rojas, César Briceño and [Eduardo Garrido](#), Chuquicamata Division, Codelco, Chile

ENG

**In-Pit Sensing of Deleterious High Alumina Ores to Enable Selective Mining**

[Daniel Finfer](#) and Janti Shawash, Anglo American, United Kingdom

SPA

**Dry Grinding with Vertical Roller Mills: Mill Design and Plant Layout**

[Caroline Woywadt](#) and André Cruz, Gebr. Pfeiffer, Germany and Brazil

14:30

ENG

**Modernization of Molybdenum Flotation: A Case Study with Rio Tinto Kennecott Copper**

Cory Smith and Cameron Strauss, Rio Tinto, USA; [David Hatton](#) and Tuhin Banerjee, Woodgrove Technologies, Canada

ENG

**From Texture to Recovery: Evaluating the Role of Compact Hematite in Iron Losses to Tailings**

[Neymayer Lima](#), Laura Andrade and Pedro Porto Cavalcanti, Vale, Brazil

ENG

**The Effect of Grates and Openings Radial Position on AG Mill Efficiency using DEM-SPH Coupled Simulations**

[Vasile Murariu](#), Håkan Ståhlbröst and Jenny Åkerström, Metso, USA and Sweden

14:50

ENG

**Concorde Cell Scale Up Study at Kevitsa Mine**

Berivan Tunc, Toni Mattsson, Joshua Sovechless and Alejandro Yáñez, Metso, Finland and Canada; Markku Kasala, Heikki Kela and Benjamin Musuku, Kevitsa, Boliden, Finland

SPA

**Advancing Mineral Processing with PGNAA: Enhancing Efficiency, Quality, and Sustainability**

Tom Strombotne, Claudio Piccino, Garry Noble and Kevin Gordon, Thermo Fisher Scientific, USA and Australia

SPA

**Impact Generation in SAG Mills: Diagnosis, Operational Control, and Optimization using Digital Tools**

[César Moscoso](#), ME Elecmetal, Chile and Alvaro Rendón, ECN Automation, Mexico

15:10

ENG

**Step-Change in Molybdenum and Copper Recovery via Column Retrofit with Cavitation Spargers**

Michele Tuchscherer, Jose Concha, Dann Segura, Christian Concha and Felipe Valdes, Eriez, Canada, Peru and Chile

ENG

**Hyperspectral and XRF Core Scanning to Resolve Copper Texture for Geomet Applications**

John Manchuk and Rob Donard, GeologicAI, Canada

SPA

**Variable Speed on Ball Mills: More than just a nice-to-have Feature?**

[Maarten van de Vijfeijken](#), ABB, Switzerland and Mark Sherman, Fluor, Canada

15:30

SPA

**Title and Speaker to be Confirmed**

SPA

**Impacts of Installing a Non-Representative Sampling System**

[Rubén Aravena Z.](#), Rubén Aravena M., SCI-A, Chile and Antoni Magri, GIS Analytics, Chile

ENG

**Performance Evaluation of Forged Grinding Media: Industrial Validation for Strategic Supplier Qualification**

Paulo Cirilo, Samarco, Brazil; Nemer Saib and Javier Zela, ME Elecmetal, Brazil and Peru

15:50

ENG

**Predicting Silica Grade in Iron Ore Flotation**

Altieres Frade, Vale, Brazil; Kerollan Ramos, Vale Institute of Technology, Brazil and Tomás Pinto, Universidade Federal of Minas Gerais, Brazil

SPA

**Title and Speaker to be Confirmed**

SPA

**Operational Variables as Design Drivers for Transfer Points and Slurry Transport Systems**

[Ariel Parra](#) and Chris Cable, GRT - Valley Rubber, USA

16:10 - 16:40 **Coffee-Break and Poster Session**



## BALLROOM A

## BALLROOM B

## BALLROOM C

[SESSION 10](#) 

Session 10: Sustainable Reagents and Bio/Chemical Depressants

[SESSION 11](#) 

Session 11: Gold and Precious Metals Processing

[SESSION 12](#) 

Session 12: Crushing, Grinding and Plant Simulation

Auspiciador Sesión Técnica

16:40

SPA

Synergistic Collector Interactions for Enhanced Ag-Pb Sulfide Flotation from a Polymetallic Ore

[Luis Contreras](#), Compañía Minera Saucito, Fresnillo PLC, Mexico; [Saul Ortiz](#) and Jaime Bravo, Fresnillo PLC, Mexico; María Salazar and Enrique Elorza, Universidad de Guanajuato, Mexico

ENG

Optimizing Direct Leaching of Refractory Gold Through Mineralogical Insights and Process Adjustment

[Juliana Freitas](#), Vagno Faustino and Gaspar Junior, Jaguar Mining, Brazil

ENG

Assessing Gold Leaching Variability in HPGR-Processed Ores Using Energy-Matched Piston Press Tests

[Jaidar Saud](#), Bern Klein and Rafael Felipe, Norman B. Keevil Institute of Mining Engineering, The University of British Columbia, Canada

17:00

SPA

Evaluation of the Depressant Effect of Cationic Nanoparticles on the Flotation of Mo, Cu and Fe

Camila Rodríguez, Romina Murga and Lina Uribe, University of Talca, Chile; Leopoldo Gutiérrez, Dept. of Metallurgical Engineering and Water Research Center of Agriculture and Mining, University of Concepcion, Chile

SPA

Improvements to the Gold Production Model for Injection Leaching Using Monte Carlo Simulation

[Carlos Vargas](#) and Hugo Fuentes, Minera Yanacocha, Newmont Corporation, Peru

ENG

Updating the Bond Work Index Database to Support the Design of the RT Sulfuros Fase II Concentrator

[Alex Doll](#), SAG Milling, Canada; Franklin Cortés, VP of Projects, Codelco; Ricardo Kreffit and Claudio Seguy, Radomiro Tomic Division, Codelco; Rodrigo Cortés and Nicolás Sepúlveda, WSP, Chile

17:20

SPA

Effect of Mechanically Degraded PAM on Chalcopyrite Flotation: From Model Systems to Plant Ore

Felipe Arcos, Universidad de Concepción and Universidad de Talca; Pablo Chacón, Universidad de Concepción; Lina Uribe, Universidad de Talca and Leopoldo Gutiérrez, Universidad de Concepción, Chile

SPA

The Influence of Aluminum Minerals on the Metallurgy of Oxidized High-Sulphidation Epithermal Gold Projects

Steve Williams, [Alex Miket](#) and Nichola McKay, Blue Coast Research, Canada

SPA

Bottleneck Analysis in an Ore Crushing, Conveying, and Reclaiming Plant using Dynamic Simulation

[Pilar Cisterna](#) and Roberto Hernández, Pares & Alvarez, Chile

17:40

SPA

Sustainable Biopolymeric Frother to Improve Selectivity in Flotation

[Sebastián Vergara](#), Dept. of Metallurgical Engineering, University of Santiago de Chile and Rodrigo Urtubia, EnviroTec Environment and Technologies, Chile

ENG

Preg-Robbing Index Applied to Geometallurgy Model and Process Optimization of a Gold Operation

[Sarah Dunn](#), [Samuel Morin](#) and Scott Jimmerson, Agnico Eagle, Canada and USA

SPA

Stochastic Dynamic Simulation and RAM Analysis in a Crushing-Grinding Circuit

Gabriel Illanes, Constanza Labra and [Javier Rodríguez](#), Syntec Ingeniería, Chile

18:00

SPA

Title and Speaker to be Confirmed

SPA

Title and Speaker to be Confirmed

SPA

Success Case: Throughput Optimization at the Cerro Corona concentrator - Gold Fields

[Diego Torres](#), Henry Aco and Kevin Berrocal, Gold Fields, Peru; Cesar Poma, Molycop, Peru

18:40-19:40

## Inaugural Ceremony

BALLROOMS A y B



BALLROOMS A y B

## Inaugural Ceremony

18:40

SPA

### Welcome Words

- **Mimy Mackenzie**, Conference and Publications Manager, Gecamin, Chile
- **Magín Torres**, Procemin-Geomet 2026 Program Director; Metallurgy and Engineering Manager, Minera Altair, Chile
- **Leopoldo Gutiérrez**, Procemin-Geomet 2026 Co-Organizer; Professor, Department of Metallurgical Engineering, Universidad de Concepción, Chile
- **Francisca San Martín**, Procemin-Geomet 2026 Co-Organizer; Professor, Department of Mining, Metallurgy and Materials Engineering, Universidad Técnica Federico Santa María, Chile

19:10

SPA

### Welcome Message and Opening Talk from the Chair of the Conference

### Lessons from the Risk-Management Cycle: Managing Stockpile and Recovery

**Marcelo Rodríguez**, Procemin-Geomet 2026 Chair; Metallurgy and Process Control Manager, Compañía Minera Doña Inés de Collahuasi, Chile

19:40 - 21:10 Welcome Reception and Live Music Show

Wednesday Jul 08

08:40-10:20

## Technical Sessions

BALLROOM A, B & C



BALLROOM A

BALLROOM B

BALLROOM C

▾ SESSION 13

Session 13: Reagents and Cu-Mo Chemistry

▾ SESSION 14

Session 14: Real-Time Sensing and Digital Mineralogy

▾ SESSION 15

Session 15: Process Modelling and Operating Targets

08:40

SPA

**Methodology for Reagent Selection in Rougher Flotation of a High-Pyrite Copper Porphyry**

Noelia Stuardo, Alex Rey and Cristian Garrido, Fluor, Chile

SPA

**Smart Eyes in the Slurry Real-Time Particle Sizing with AI-Powered Inline Microscopy**

Vitor Braz, SOPAT GmbH (AMS), The Netherlands; Sebastian Maaß, SOPAT GmbH, Germany and Jose Benedito Roberto, Vale, Brazil

SPA

**Codelco's Integrated Ore Variability Simulation for Improved FEL-2**

Jair Alarcón and Paulo López, Orica Argentina, Australia and Chile; Karina Bustos, Rodrigo Cortés and Nicolás Sepúlveda, WSP, Chile; Pablo Durán and Franklin Cortés, Vice Presidency of Projects, Codelco, Chile

09:00

ENG

Collector Blend Strategies for Chalcopyrite-Pyrite Flotation Selectivity at Natural pH

[Natalie Shackleton](#), Vratislav Malysiak, Tyler Mabunda and Shani Engelbrecht, AECI Mining Chemicals, South Africa

SPA

Use of an Online Grade Analyzer to Reduce Uncertainty in Flotation Feed Control at Salobo 3

[Fabio Galvão](#), Olegario Junior, Gladstone Vieira, André Caetano, Igor Abreu and Erick Araujo, Vale Base Metals, Brazil

SPA

Evaluation of Innovations and Optimizations in Concentrator Plants Using Statistical Causal Inference

[Fernanda Contreras](#), Pablo Castañeda, Pamela Mora and Jaime Díaz, Empírica Consultores, Chile

09:20

SPA

Partial Replacement of NaHS with AERO® NR-7361 in Mo Selective Flotation: Plant Trial Results

[Santiago Honores](#), Rodrigo Pinto, Diego Barriga, José Quinteros and Luis Salinas, Chuquicamata Division, Codelco, Chile and Claudia Golarte, Syensqo, Chile

SPA

Online NIR Mineralogy as Digital Infrastructure for Copper Flotation

Marcelo Rocha, BHP Invent, Chile; Christian Potocan and [Jonathan Dutton](#), SpectraFlow Analytics, Switzerland and South Africa

SPA

The Target is a Scale-Up Hypothesis: From Geometallurgical Testwork to Plant Targets

[Felipe Contreras](#), CleverMet, Chile

09:40

ENG

Oil Content of MoS<sub>2</sub> Concentrates: New Interpretations and Implications for Mo Collector Design

[Mitchell Lancaster](#), Syensqo, USA

SPA

Real-Time LIBS Monitoring for Intelligent Mining Process Optimization

Sadia Manzoor and Ad Maas, Spectral Industries, The Netherlands; Dirk Van Der Werff and [Jean Pierre Mery](#), Holtec, The Netherlands and Chile

SPA

Concentrator Plant Optimization for High-Grade Pellet Feed Production

Gerardo Saavedra, Andres Frez and Jorge Alvarado, Compañía Minera del Pacífico, Chile

10:00

SPA

A Novel Cu and Fe Sulfide depressant as a Safe and Efficient Alternative of NaSH in Cu-Mo Separation

Carmina Quintanar, Claudia Golarte and Julio Zapata, Syensqo, Chile

SPA

RockSense2D New Analytics Features: Results and Benefits for Comminution Circuits

Luis Lobos, Geoffrey Legrand, Ville Suontaka, Alessandro Castellani and [Julio Aburto](#), Metso, Chile and France

SPA

End-to-End Process Simulation and Optimization of Minera Los Pelambres Using the IES Platform

[Paulo López](#) and Ziming Ye, Orica, Australia and Fernanda Zamorano, Minera Los Pelambres, Antofagasta Minerals, Chile

10:20 - 11:00 **Coffee-Break and Poster Session**

11:00-12:00 **Plenary Session 1**  
BALLROOMS A y B

BALLROOMS A y B

Plenary Session 1

Auspiciador Sesión Plenaria

11:00

ENG

Geometallurgy Models: Simplicity Wins Over Complexity ◀ Back to Basics

[Regina Baumgartner](#), Manager, Geometallurgy and Mineralogy, Teck Resources, Canada

11:30

SPA

Mineral Processing: Construction and Operation ▶ Two Distant Worlds?

12:00 - 12:20 **Short Break**

12:20-13:20 **Plenary Session 2**  
BALLROOMS A y B

BALLROOMS A y B

Plenary Session 2

12:20

SPA

**Phenomenological Geometallurgical Plan for Capstone Copper Assets in Chile**

**Luis Lazo**, Metallurgy Superintendent and **Leonardo Parraguez**, Metallurgy Manager, Capstone Copper, Chile; Brandon Akestrom and Emily Jaques, Capstone Copper, Australia

12:50

SPA

**Salares Norte: Evolution from Project Stage to Ramp-Up, Stabilization, and Operational Optimization**

**Reynaldo Martínez**, Asset Performance Manager, Region Las Americas-Chile, Gold Fields

13:20 - 14:50 **Lunch**

14:50-16:30 **Technical Sessions**  
BALLROOM A, B & C

BALLROOM A

BALLROOM B

BALLROOM C

▾ SESSION 16

**Session 16: Coarse Particle Flotation I: Industrial Technologies**

▾ SESSION 17

**Session 17: Geometallurgy in Production Planning**

▾ SESSION 18

**Session 18: Digital Optimization and AI in Plant Operations**

14:50

ENG

**Coarse Scavenging in a Modified Jameson Cell**

Eduardo Morin, **Christopher Anderson** and Adam Price, Glencore Technology, Chile and Australia; Rafael Carpio and Ely Loayza, Compañía Minera Antapaccay, Peru and Marcela Livia, Glencore Servicios Corporativos, Peru

ENG

**Geometallurgical Mapping of Deleterious Elements at the Salobo Mine**

**Ricardo Nunes Melo**, Giseli Ramos and Igor Carneiro, Vale Base Metals, Brazil and Fernanda Gontijo, Federal University of Rio Grande do Sul, Mining Engineering Department, Brazil

SPA

**Python-Based Data Analytics for Operational Insights in Mineral Processing Plants**

Juan Vergara-Meruane, Charles Blais, Katherine Mansilla, Ricardo Esteban and Javier Vergara, BBA Consultants, Chile and Canada

15:10

ENG

SPA

SPA

**Predicting Copper Fluidized Bed Flotation Using First-Principles and Historical Data Models**

Ronney Rodrigues Silva, Jose Concha, Rodrigo Cretier and Eric Wasmund, Eriez, USA

**Impact of Over-Extraction Beyond Economic Height on Metallurgical Recovery and the Development of a Geometallurgical Risk Index at the Chuquicamata Underground Mine**

Paula Peñaloza and Claudio Cordova, Chuquicamata Division, Codelco, Chile

**Real-Time Detection and Categorization of Pressure Spikes in SAG Milling via Advanced Analytics**

Danielle Mesías, Juan Pablo Bastías and Francisca Hurtado, Minera Escondida, BHP; Katherine Bustos, Rafael Berrios, Nicolás Grágeda, José Rojas, Daniel Baquedano and Nicolás Neira, Honeywell, Chile

15:30

SPA

**Coarse Particle Flotation without Desliming: Performance of NovaCell CPF Technology**

Sherwin Morgan, Mario Saavedra, Lonn Cooper and Juan Ccarita, Jord International, Australia, Chile and Peru

SPA

**Geometallurgical Blending of Chuquicamata and Radomiro Tomic Ores for Concentrator Optimization**

César Briceño, Pablo Rojas and Eduardo Garrido, Chuquicamata Division, Codelco, Chile

ENG

**Effective Particle Size Control in Copper Concentration Re grinding: Real-Time Measurement with Imaging Technology and Neural Networks**

Renan Sousa, Rafael Oliveira, Ricardo Nunes and Igor Carneiro, Vale Base Metals, Brazil; Vitor Braz, SOPAT, The Netherlands and Sebastian Maaß, SOPAT, Germany

15:50

ENG

**Influence of Free Surface Exposure on Coarse Particle Flotation in a Froth-Feeding CPF Cell**

Marly Carvalho, Cagri Emer, Sevda Dilmaghani and Jussi Liipo, Metso, Finland and Turkey

SPA

**Adherence Assessment of a Geometallurgical Model Based on Plant Operational Results**

Mônica Mendes, Fabiana Teixeira, Julio Ferreira, Pauliney Rocha, Matheus Feitosa, Roberta Ferreira and Diana Rodrigues, Vale, Brazil

ENG

**PI Vision Digital Shadow for Monitoring Iron Ore Homogenization Stockpiles**

Maria Inêz Oliveira, Vale and Department of Mining Engineering, Federal University of Minas Gerais, Brazil; Igor Silva, Radix Engineering and Software, Brazil; Rafael Freitas, Vale, Brazil and Ana Araújo, EY, Brazil

16:10

SPA

**Recovery of Coarse Particles in Rougher Tailings using Metso CPF Cell in Continuous Operation**

Manuel Durán, Cagri Emer, Marly Carvalho, Joshua Sovechles, Xavier Peña and Valentina Concha, Metso, Finland, Canada and Chile; Luis Castro, Grupo Minera Las Cenizas, Chile

SPA

**Title and Speaker to be Confirmed**

ENG

**Implementing a Water Treatment Digital Twin for a Gold Mine Project**

Christian Binder, Cesar Araujo, Antti Remes and Ari Rantala, Metso, Finland

16:30 - 17:10 **Coffee-Break and Poster Session**

17:10-18:30 **Technical Sessions**  
BALLROOM A, B & C

BALLROOM A

▾ SESSION 19

**Session 19: Coarse/Pneumatic Flotation II and Separation**

BALLROOM B

▾ SESSION 20

**Session 20: Metallurgical Accounting and Testing Quality**

BALLROOM C

▾ SESSION 21

**Session 21: Specialty Minerals and Process Chemistry**

17:10

SPA

**Pneumatic Flotation Imhoflot Evolution Comparison and Industrial Application Different Countries**

Samuel Sánchez Pino and Samuel Sánchez Baquedano, Ingeniería de Minerates, Chile

ENG

**Robust Flowsheet Development with High-Confidence Flotation Testing**

Norman Lotter, Flowsheets Metallurgical Consulting, Canada; Maxine Hoffman, Maximum Process Solutions, Canada; Neri Roux, SGS Lakefield, Canada and Phillip Mackey, P.J. Mackey Technology, Canada

SPA

**Maps Min SEM-EDS for REE and Columbite-Tantalite Solid Solutions: Spectrum Prediction and Assay**

Stephen Seddio, Leonardo Salazar, Echo Gao and Aukje Benedictus, Thermo Fisher Scientific, USA, China and Australia

17:30

ENG

**Novel Process for Selective Gangue Removal from Copper and Sulfides Concentrates**

Fabio Fernandes Pinto, Dan Stigers, Michaeline Albright, Karrie Radloff, Troy Bednarski, Coy Zimmerman, Bianca Cruz, Catherine Lebel and Kent Sorenson, Allonnia, USA and Marco Orellana, Innova-Met, Chile

ENG

**Finding the Balance: The Effect of Measurement Quality and Mass Balance Methods on Metallurgical Accounting**

[Diana Felipe](#), JKTech, Australia

SPA

**Mineralogical Data Optimization and Machine Learning Prediction of Cu Recovery in Chloride Leaching**

[Fernando Stocker](#), Universidad del Desarrollo and SRK Consulting, Chile and Joled Nur, SRK Consulting, Chile

17:50

SPA

**Recovering Value from Rougher Tailings: Predictive Modeling of Coarse Particle Flotation**

[Catalina Lobos-Zúñiga](#), Catalina Martínez-Barrueto and Mauricio Romero, Empírica Consultores, Chile

SPA

**Sampling System Uncertainty and Its Impact on Metallurgical and Economic Performance**

Rocío Paineo, Maria Piffardi and [Liljan Zavala](#), Chuquicamata División, Codelco, Chile

SPA

**Design and Evaluation of Frother Mixtures as Alternatives to MIBC for Cu-Mo Flotation Using Response Surface Methodology**

Cristian Saavedra, Patricio Zarate, Michael Mallea and Wagner Silva, Clariant, Chile and USA

18:10

SPA

**Quantifying the Impact of Roping Events on the Recovery and Net Metal Production**

[Rodrigo Bruna](#), Alejandro Ramos, Robert Maron and Alejandro Jaque, CiDRA Minerals Processing, Chile and USA

SPA

**Evaluation of Error Propagation in Metallurgical Testing Programs and its Impact on Geometallurgical Modeling**

[Pablo Castañeda](#), Ricardo Miles, Javiera Quiroz and Jaime Diaz, Empírica, Chile

SPA

**Effect of Dispersant Use on the Flotation of Copper and Molybdenum Sulfide Minerals from Porphyry Copper Ores with Different Clay Contents**

Andrés Ramírez and Leopoldo Gutiérrez, Universidad de Concepción and CRHIAM; Wilfredo Nope, Dept. of Metallurgical Engineering, Universidad de Concepción, Chile

18:30 - 20:00 **Networking Cocktail and Fun Photo Session**

Thursday Jul 09

08:40-10:20

**Technical Sessions**  
BALLROOM A, B & C



BALLROOM A

BALLROOM B

BALLROOM C

▾ SESSION 22

**Session 22: Clay, Rheology and Flotation Scale-Up**

▾ SESSION 23

**Session 23: Applied Mineralogy and Ore Characterization**

▾ SESSION 24

**Session 24: New Projects, Expansions and Business Value**

08:40

SPA

**Online Rheology as an Operational Indicator of Mineralogical Variability in Copper Flotation**

[Rodrigo Balboa](#), Vicente García, José Grandi, Arturo Rock and Miguel Parra-Marisio, Konatec, Chile; Leopoldo Gutiérrez and Walter Díaz, Universidad de Concepción, Chile

SPA

**Size Resolved Copper-Pyrite Perimeter Textures and Mineralogical Context in Locked Cycle Tests**

[Felipe Martínez](#) and Paulina Andaur, SGS, Natural Resources, Chile

SPA

**Process Design at Scale: Flotation Selectivity and Ore Competence Constraints at the Warintza Cu-Mo Concentrator**

[Harold Lopez](#) and Greg Lane, Ausenco Services, Australia; Daniel Diaz del Olmo, Ausenco, Peru; Jesus Rodriguez and Carolina Malca, Lowell Copper, Solaris Resource, Peru

09:00

SPA

**Thickener Audits: Interaction Between Clay Mineralogy, Rheology, and Flocculation in Copper Concentrate Thickening**

SPA

**Geometallurgical Characterization of Low-Grade Minerals, Gabriela Mistral Division, Codelco Chile**

SPA

**Mine Start-Up Execution: How Ramp-Up Determines Whether CEOs Create or Destroy Value**

09:20

SPA

**Fundamental and Applied Evaluation of Clay Management in Sulfide Flotation**

Oznur Onel, Jannice Kubinski and Michelle Hoang, Nalco Water an Ecolab Company, USA

SPA

**Cobalt Department Resolved with Maps Min: From Co-rich Zonation in Pyrite to Grain Chemistry Distributions**

Leonardo Salazar, Echo Gao, Stephen Seddio and Aukje Benedictus, Thermo Fisher, Australia, China and USA

SPA

**The Importance of an Early Assessment of Temporary Facilities in a Brownfield Project**

Juan Francisco Schwarze, Arcadis, Chile

09:40

SPA

**Correlating Clay Content, Pulp Rheology and Time Scale-Up Factors in Copper Sulfide Flotation**

Leopoldo Gutiérrez, Department of Metallurgical Engineering and Water Research Center for Agriculture and Mining (CRHIAM), Universidad de Concepcion, Chile

SPA

**From Legacy Core Photography Towards Geometallurgical Applications: GSI and Q-prime at Deposit Scale**

Luis Yañez, Datarock-Imdex, Australia

SPA

**Business Alternatives in Small-Scale Mining: Vertical Integration or Direct Sales?**

Vicente Cancino, Felipe Muñoz and Reinaldo Salazar, National Mining Society, Sonami, Chile

10:00

SPA

**The Role of Impeller Size and Particle Size on Solids Suspension in a Mechanical Flotation Cell**

German Lastra, Bellson Awatey, Juan Jose Frausto and Kym Runge, Julius Kruttschnitt Mineral Research Centre, The University of Queensland, Australia

SPA

**A Geometallurgical Model for Predicting Acid Drainage Generation Potential in a Sulfide Copper Deposit**

Lorena Guimarães, Elisabeth da Fonseca and Danielly Couto, Vale, Brazil and Matheus Bianchetti, Lunding Mining, Brazil

SPA

**Optimization of Critical Input Contracting to Enhance Cost Efficiency and Operational Stability in Mineral Processing**

Magali Colqui, Minera Las Bambas, Peru

10:20 - 11:00 **Coffee Break and Posters Session**

11:00-12:30

**Plenary Session 3**  
BALLROOMS A y B



BALLROOMS A y B

Plenary Session 3

Auspiciador Sesión Plenaria

11:00

ENG

**Geometallurgy in Vale's Iron Ore Chain: Leveraging Ore Variability to Define Better Products**

Elisabeth da Fonseca, Technical Manager - Geometallurgy, Vale, Brazil

11:30

SPA

**Efficient Concentrator Design: Integrating New Technologies for Complex Ores and Increasing ESG Requirements**

Sergio Lagos, Director Technology Solutions South America, Ausenco

12:00

SPA

12:30 - 14:00 Lunch

14:00-15:40 Technical Sessions  
BALLROOM A, B & C



BALLROOM A

BALLROOM B

BALLROOM C

▾ SESSION 25

▾ SESSION 26

▾ SESSION 27

Session 25: APC and Expert Systems

Session 26: AI/ML for Geometallurgy and Orebody Knowledge

Session 27: Mine-to-Mill Integration and Operational Geometallurgy

14:00

SPA

Scenario Detection and Coordination for Copper Flotation Circuits

Danielle Mesías and Juan Pablo Bastías, Laguna Seca, Minera Escondida, BHP, Chile; Nicolás Grágeda, Nicolás Neira, Daniel Baquedano, José Rojas and Francisco Arenas, Honeywell, Chile

ENG

Assessing Sampling Representativeness by Geometallurgical Domain Using Monte Carlo Simulation

Laura Andrade, Tiago Caixeta, Carolina de Souza, Neymayer Lima, Rodrigo Fina and Pedro Porto Cavalcanti, Vale, Brazil

ENG

Geometallurgical Integration Applied to Copper Beneficiation at the Salobo Complex

Fabio Galvão, Priscila Bueno, Rosiane Aquino, Filipe Barros, Sebastião Adelino and Layane Nascimento, Vale Base Metals, Brazil

14:20

ENG

Data-Driven Advanced Process Control for Phosphate Thickening: A Robust, Real-Time APC System

[Sushil Kumar Dubey](#), Bipin Kumar Angadi, Velan Kumar and Rajiv Krishnamurthy, Takraf India Private, India

SPA

Small Data: Unlocking Deep-Learning for Geometallurgy Through Two-Stage Training

[Javier Merrill-Cifuentes](#) and Alex Maritati, IMDEX, Australia

ENG

Geometallurgical Assessment of Bacaba Ore: A Case Study at Sossego Mine

André Menezes, Douglas Rocha, [Elaine Lima](#), Manassés Aguiar, Maria Beatriz Silva, Mário Freitas and Jorge Arce, Vale Base Metals, Brazil

14:40

ENG

Expert Optimizer: Advanced Process Control System at Salobo III

Bruno Vieira, Ana Magalhães, Jailton Araujo and Laura Torres, Vale Base Metals, Brazil

SPA

Integrated Methodology for the Development of SWIR Chemometric Models Applied to Geometallurgy

[Francisca Gómez](#), Débora Sugamiele, Javiera Fernández, Esteban Leiva and Efraín Cárdenas, Teck Resources, Chile

ENG

Industrial Reagent Testing at the Sossego Plant: The Use of Quicklime and Milk of Lime

André Menezes, Douglas Rocha, [Elaine Lima](#), [Manassés Aguiar](#), Maria Beatriz Silva, Mário Freitas, Jorge Arce and Stephanie Sá, Vale Base Metals, Brazil

15:00

SPA

Bulk Flotation Coordinator: Advanced Control for Copper Collective Flotation Optimization

[Karla Rodríguez](#) and Sergio Pinto, Andritz, Chile

SPA

Improving Geometallurgical Sample Selection Through Orebody Knowledge and Machine Learning

Samer Hmoud and Daren Mohammed, Rocscience, Canada; [Elisabeth da Fonseca](#), Vale, Brazil and Giseli Ramos, Vale Base Metals, Brazil

SPA

Mine-to-Plant Optimization through Operational Strategies under Extremely Hard Rock Conditions

[Jorge Cárdenas](#), [José Salvador](#) and Juan Lazarte, Enaex, Peru

15:20

SPA

Integration of Advanced Analytics pH Recommendations into DCS Using Ore Traceability

SPA

Deep Learning for Long-Term Spatial Estimation of Clay Minerals in a Large-Scale Copper Mine

SPA

Real-Time Estimation of Ore Blending Composition in Copper Concentrators Using Automated Soft Sensors

Oswaldo Escobar, Claudio Blaña, Luis Campos, Karla Heredia, Javier Inostroza, Valentina Elgueta and Maroa Soza, Chuquicamanta Codelco; Jonathan Aqueveque, Stephanie Salazar, Javiera Corrales, José Matamoras and Paulo Paillacar, Codelco, Chile

Pablo Vega, Ricardo Kreft and Julian Ravanal, Radomiro Tomic Codelco; [Valentina Elgueta](#), Cesar Briceño, Carlos Barrio and Javier Inostroza, Chuquicamata Codelco; Tomás Rodríguez, Jacqueline Harris, Pablo Soto and Maximiliano Contreras, Mineral Forecast, Chile

Jorge Infantes, Maykol Campos and Yanderier Rivera, Marcobre, Peru

15:40-17:10

## Closing Ceremony

Foyer



Foyer

## Closing Ceremony

15:40

SPA

### Acknowledgments and Closing Remarks

- **Mimy Mackenzie**, Conference and Publications Manager, Gecamin, Chile
- **Magín Torres**, Procemin-Geomet 2026 Program Director; Metallurgy and Engineering Manager, Minera Altair, Chile
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