

Technical Program

△ **Version as of July 2, 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 Patricio Ibáñez, Jesús Casas, Martha Claros and Yahaira Barrueto, Professors, Department of Mining, Metallurgical, and Materials Engineering, Universidad Técnica Federico Santa María, Chile

Tuesday Jul 07

08:30-10:20 **Technical Sessions**
BALLROOM A, B & C



BALLROOM A

BALLROOM B

BALLROOM C

SESSION 1

Session 1: Dewatering and Water Quality

Moderador: Fernando Betancourt, Director, Metallurgical Engineering Department, Universidad de Concepción, Chile

SESSION 2

Session 2: Geometallurgical Modelling and Recovery Prediction

Moderador: Patricia Watson, Geometallurgy Superintendent, Salares Norte, Minera Gold Fields, Chile

SESSION 3

Session 3: Comminution Circuits and Ramp-Up Value

Moderador: Jaime Sepúlveda, Executive Director, J-Consultores, Chile

08:30

SPA

Daily Update

SPA

Daily Update

SPA

Daily Update

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

ENG

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 Carvalho de Sousa, Daiane Silveira, [Ricardo Nunes 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

[Robert 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

PRT

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

[Felipe Teixeira de Oliveira](#), 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

PRT

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

Gabrielle Sorte, George Aragão and Carolina Souza, Vale Base Metals, Brazil. Presented by [Stephanie Sá](#)

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

11:00-12:40 Technical Sessions
BALLROOM A, B & C

BALLROOM A

BALLROOM B

BALLROOM C

Session 4: Industrial Flotation Measurement and Modelling

Moderador: Hernán Guerrero, Principal Metallurgist, MMG Minera Las Bambas, Peru

Session 5: Critical Minerals, Tailings Reprocessing and Mineral Economics

Moderador: Yahaira Barraeto, Academic, Department of Mining, Metallurgy and Materials Engineering, Universidad Técnica Federico Santa María, Chile

Session 6: Grinding Energy, Media and Ball Mill Performance

Moderador: Lucia Gomez, OR Plant Manager, Cia. Minera Zafrenal, Teck, Peru

11:00

SPA

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

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

PRT

Application of Sensor-Based-Sorting Technology at Pilot Plants in South America

[Priscila Esteves](#), Vinicius Souto, Edwardes Dias, Camila Senna and Thais Soares, Steinert Latinoamericana, Brazil

ENG

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

[Carlos Garcia](#) 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

ENG

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 Geopyörä Index

[Leonardo Lara](#) and Marcos Bueno, Geopyörä, 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

SPA

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

ENG

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

PRT

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

Ana Luisa Magalhães, Bruno Vieira Sousa, Vitor Teixeira, [Thiago Pereira dos 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

Session 7: Industrial Flotation Case Studies

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

Session 8: Advanced Mineral Characterization and Sampling Technics

Moderador: Lina Uribe, Associate Professor, Department of Mining Engineering, Universidad de Talca, Chile

Session 9: Mill Design, SAG/AG Simulation and Control

Moderador: Alex Doll, Mineral Comminution Consultant, Alex G. Doll Consulting, Canada

Auspiciador Sesión Técnica

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

ENG

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

PRT

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 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

SPA

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

ENG

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

PRT

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

Impacts of Installing a Non-Representative Sampling System

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

SPA

Performance Evaluation of Forged Grinding Media: Comparative Supplier Evaluation According to Market Practices

Paulo Cirilo, Samarco, Brazil; Nemer Saib and [Javier Zela](#), ME Elecmetal, Brazil and Peru

15:50

SPA

No technical presentation

SPA

Characterization of Geometallurgical Units through Drill Core Scanning with LIBS Technology

[Carlos Barrios](#), [Elizabeth Demané](#), Rodrigo Quiroz, Sergio Ahumada and Anay González, Chuquicamata Division, Codelco, Chile

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

Moderador: Juan Patricio Ibáñez, Academic, Department of Mining, Metallurgy and Materials Engineering, Universidad Técnica Federico Santa María, Chile

▾ SESSION 11

Session 11: Gold and Precious Metals Processing

Moderador: Andrés Ramírez, Professor, Department of Metallurgical Engineering, Universidad de Concepción, Chile

▾ SESSION 12

Session 12: Crushing, Grinding and Plant Simulation

Moderador: Persio Rosario, Senior Manager, Copper Growth, Vale Base Metals, Brazil

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

PRT

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

SPA

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 Krefft 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

ENG

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

PRT

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

SPA

Implementing a Water Treatment Digital Twin for a Gold Mine Project

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

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

18:20 - 18:40 **Coffee-Break and Poster Session**

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

08:30-10:20

Technical Sessions

BALLROOM A, B & C



BALLROOM A

BALLROOM B

BALLROOM C

[SESSION 13](#)

Session 13: Reagents and Cu-Mo Chemistry

Moderador: Jesús Casas, Academic, Department of Mining, Metallurgy and Materials Engineering, Universidad Técnica Federico Santa María, Chile

[SESSION 14](#)

Session 14: Real-Time Sensing and Digital Mineralogy

[SESSION 15](#)

Session 15: Process Modelling and Operating Targets

Moderador: Oscar Alruiz, General Manager, Alruiz Consultoría, Chile

08:30

SPA

Daily Update

SPA

Daily Update

SPA

Daily Update

08:40

ENG

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

[Noelia Stuardo](#), Alex Rey and Cristian Garrido, Fluor, Chile

ENG

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

PRT

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

ENG

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 MoS₂ 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?

[Juan Francisco Schwarze](#), Senior Mining Process Consultant and [Fabián Tapia](#), Senior BIM Systems Engineer, Arcadis, Chile

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, Capstone Copper, Chile; Leonardo Parraguez, 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

Moderador: Francisca San Martín, Academic, Department of Mining, Metallurgy and Materials Engineering, Universidad Técnica Federico Santa María, Chile

SESSION 17

Session 17: Geometallurgy in Production Planning

Moderador: Sergio Spichiger, Principal Consultant, Geometallurgica Consultores, Chile

SESSION 18

Session 18: Digital Optimization and AI in Plant Operations

Moderador: Felipe Contreras, Technical Manager - Owner, CleverMet, Chile

14:50

SPA

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

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. Presented by Felipe Valdés

PRT

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

SPA

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

SPA

Geometallurgical Blending of Chuquicamata and Radomiro Tomic Ores for Concentrator

ENG

Effective Particle Size Control in Copper Concentration Re grinding: Real-Time

Sherwin Morgan, [Mario Saavedra](#), Lonn Cooper and Juan Ccarita, Jord International, Australia, Chile and Peru

Optimization

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

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

PRT

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

PRT

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

A Copper Production Model for Las Bambas, Peru

[Hernán Guerrero](#) and Katia Güimac, MMG, Minera Las Bambas, Peru; Oscar Alruiz and Camila Pinto, Alruiz Consultoria, Chile

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

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

Moderador: Juan Carlos Villarroel, Expert in Metallurgical Processes and Engineering, JCV Ingeniería, Chile

BALLROOM B

SESSION 20

Session 20: Metallurgical Accounting and Testing Quality

Moderador: Max Valenzuela, Technical Manager, Aminpro, Chile

BALLROOM C

SESSION 21

Session 21: Specialty Minerals and Process Chemistry

Moderador: Claudia Ríos, M&M Business Development Manager SSA, Bureau Veritas, Chile

17:10

SPA

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

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

SPA

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

SPA

Sampling System Uncertainty and Its Impact on Metallurgical and Economic Performance

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

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

Pneumatic Flotation Imhoflot Evolution Comparison and Industrial Application Different Countries

SPA

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

SPA

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

[Samuel Sánchez Pino](#) and Samuel Sánchez Baquedano, Ingeniería de Minerales, Chile

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

[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

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

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

SPA

Effect of Dispersant Addition on Cu-Mo Flotation of 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

08:30-10:20 **Technical Sessions**
BALLROOM A, B & C

BALLROOM A

BALLROOM B

BALLROOM C

SESSION 22

Session 22: Clay, Rheology and Flotation Scale-Up

Moderador: Juan Yianatos, Full Professor, Department of Chemistry and Environment, Universidad Técnica Federico Santa María, Chile

SESSION 23

Session 23: Applied Mineralogy and Ore Characterization

Moderador: Tatiana Ordenes, Academic, Mining Engineering Department, Universidad de Santiago de Chile

SESSION 24

Session 24: New Projects, Expansions and Business Value

Moderador: Enzo Martínez, Plant and Projects Manager, Cía. Minera San Gerónimo, Chile

08:30

SPA

Daily Update

SPA

Daily Update

SPA

Daily Update

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

ENG

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

[Andrei Chaura](#), David Romo and Catalina Gómez, Paterson and Cooke, Chile

SPA

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

[Susanna Vergara](#), Juan Carlos Álvarez, Darwin Ledezma and Katherine Almeida, Gabriela Mistral Division, Codelco, Chile

ENG

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

[Nicolas Beauchamp](#) and Ricardo Varas, BBA Consultants, Canada and Chile

09:20

SPA

Fundamental and Applied Evaluation of Clay Management in Sulfide Flotation

Oznur Onel, Jannice Kubinski and Michelle Hoang, Nalco Water an Escolab Company, USA. Presented by [Rodrigo Caris](#)

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

SPA

From Legacy Core Photography Towards Geometallurgical Applications: GSI and Q-

SPA

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

Flotation

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

prime at Deposit Scale

Luis Yañez, Datarock-Imdex, Australia

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

10:00

ENG

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

PRT

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

AI-Driven Operational Optimization to Maximize Fine Copper Recovery in a Concentrator Plant

Jorge Infantes, Plant Concentrator Superintendent, Marcobre, Peru; Yanderier Rivera and Luis Chacon, Marcobre, Peru

12:30 - 14:00 **Lunch**

14:00-15:20

Technical Sessions
BALLROOM A, B & C



BALLROOM A

BALLROOM B

BALLROOM C

↘ SESSION 25

↘ SESSION 26

↘ SESSION 27

Session 25: APC and Expert Systems

Moderador: Danielle Mesías, Superintendent Mineral Processing, Minera Escondida, BHP, Chile

Session 26: AI/ML for Geometallurgy and Orebody Knowledge

Moderador: Eduardo Cortés, Senior Process Engineer, Cía. Minera Doña Inés de Collahuasi, Chile

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

Moderador: Magín Torres, Metallurgy and Engineering Manager, Minera Altair, Chile

14:00

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

PRT

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

SPA

Salares Norte: Estabilización Operacional con Soporte desde el Centro Integrado de Monitoreo Remoto (CIMR)

Catalina Monsalve, Gold Fields, Chile

14:20

PRT

Expert Optimizer: Advanced Process Control System at Salobo III

Bruno Vieira, Ana Magalhães, Jailton Araujo and Laura Torres, Vale Base Metals, Brazil. Presented by Thiago Pereira dos Santos

PRT

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

14:40

SPA

Bulk Flotation Coordinator: Advanced Control for Copper Collective Flotation Optimization

Karla Rodríguez and Sergio Pinto, Andritz, Chile

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

SPA

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

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

15:00

SPA

Integration of Advanced Analytics pH Recommendations into DCS Using Ore Traceability

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

SPA

No technical presentation

SPA

Salares Norte: Implementación del Sistema de Control Avanzado de Procesos (APC) en Molienda

Rafael Reyes, Gold Fields, Chile

15:20-17:00 **Closing Ceremony, Participants Satisfaction Survey Raffle and Farewell Cheese and Wine Foyer**

Foyer

Closing Ceremony, Participants Satisfaction Survey Raffle and Farewell Cheese and Wine

15:20

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

