

## Students Poster

- 1. Evaluation of Cleaner Direct Flotation Kinetics on Paz del Río, Boyacá, Colombia Iron Ore**  
Judy Vargas, Moisés Bustamante and Paula Pérez, Department of Materials and Minerals, Universidad Nacional de Colombia
- 2. Understanding Flotation Performance through Air Recovery, and Gas Holdup Measurements: The Role of Frother Chemistry**  
Jose Martinez, Diego Mesa, Stephen Neethling and Pablo Brito-Parada, Earth Science and Engineering Department, Imperial College London, United Kingdom
- 3. The Effect of Launder Geometry on Froth Transport in Industrial Rougher Flotation**  
Gilda Molina and Luis Vinnett, Department of Chemical and Environmental Engineering, Universidad Técnica Federico Santa María, Chile; Luis Silva and Hernán Rocha, Minera Valle Central, Chile
- 4. The Effect of Dosage and Aeration Time of Sodium Metabisulfite on Iron and Copper Recovery in Flotation**  
Constanza González and Luis Vinnett, Dept. of Chemical and Environmental Engineering, Universidad Técnica Federico Santa María, Chile; Luis Silva and Hernán Rocha, Minera Valle Central, Chile and Francisca San Martín, Dept. of Mining, Metallurgy and Materials Engineering, Universidad Técnica Federico Santa María, Chile
- 5. Impact of Organic Petrography on Density-Based Coal Separation Processes**  
Nkhumeleni Tshiongo and Willie Nheta, Department of Metallurgy, University of Johannesburg, South Africa
- 6. Technical-Metallurgical Evaluation and Pilot Plant Design for Cu-Fe Tailings**  
Rafael Pardo, Dept. Mining, Metallurgy and Materials Engineering, Universidad Técnica Federico Santa María, Chile
- 7. Towards Zero Waste Mining: Producing Ore-sand as By-product of Copper Ore Processing**  
Bioantika, SMI, The University of Queensland, Australia and Dept. of Earth and Environmental Sciences, The University of Exeter, The United Kingdom; Juliana Segura-Salazar, Christian Antonio and Daniel Franks, SMI, The University of Queensland, Australia; Rob Fitzpatrick, Dept. of Earth and Environmental Sciences, The University of Exeter, The United Kingdom
- 8. Ultrasonic Pretreatment for Selective Chalcopyrite-Pyrite Separation in Desulfurization Circuits**  
Angela Zapata, Luis Cisternas and Yesica Botero, Dept. Chemical and Mineral Process Engineering, Universidad de Antofagasta, Chile
- 9. Selective Flotation of Lithium Sulfate: The Influence of Crystal Habit Modification on Recovery from Residual Brines**  
Alejandra Cespedes-Rossell, Luis Cisternas and Yesica Botero, Department of Chemical Engineering and Mineral Processing, University of Antofagasta, Chile
- 10. Effect of Anionic Polyacrylamide, Salinity and Kaolinite on Molybdenite Recovery**  
Joquín Inostroza, Department of Metallurgical Engineering, Universidad de Concepción, Chile
- 11. Optimization of Bioflotation Parameters for Copper Sulfides in Seawater**  
Manuel González and Francisca San Martín, Department of Mining, Metallurgy and Materials Engineering, Universidad Técnica Federico Santa María, Chile

- 12. Critical Evaluation of the MNB-Assisted Flotation on Polymetallic and Industrial Ores**  
Andrea Arreola, Maestría en Ciencia e Ingeniería de los Materiales, Universidad Autónoma de Zacatecas, Mexico
- 13. Geometallurgical Modeling for Specific Energy of Comminution and Recovery in the Flotation of a Copper Mine**  
Evandro Leite and Douglas Mazzinghy, Dept. of Mining Engineering, Federal University of Minas Gerais, Brazil
- 14. Methodology to Improve the Reliability of Kinetic Studies in Flotation**  
María Silva and Luis Vinnett, Dept. Chemical and Environmental Engineering, Universidad Técnica Federico Santa María, Chile
- 15. Influence of Regrinding and Grinding Media on the Depression of Activated Pyrite**  
Ovidio Cruz-Quicaña, Luis Cisternas and Yesica Botero, Department of Chemical Engineering and Mineral Processing, Universidad de Antofagasta, Chile
- 16. Kaolinite Removal Via Oscillatoria 46.1 EPS and its Effect on Chalcopyrite Flotation**  
Ximena Mamani and Luis Cisternas, Department of Chemical Engineering and Mineral Processing, Universidad de Antofagasta, Chile and Mariella Rivas, Department of Biotechnology, Universidad de Antofagasta, Chile
- 17. HAC Cellulose Nanoparticles as Depressant of Pyrite in the Flotation of Cu-Mo- Sulfide Ores**  
Camila Rodríguez, Romina Murga and Lina Uribe, Universidad de Talca, Chile and Leopoldo Gutiérrez, Department of Metallurgical Engineering, Universidad de Concepción, Chile
- 18. Selective Flotation of Chalcopyrite and Enargite using Electroflotation**  
Gabriela Maturana and Francisca San Martín, Department of Mining, Metallurgy and Materials, Universidad Técnica Federico Santa María, Chile
- 19. Techno-Economic Optimization of Flotation Circuits under Geometallurgical and Economic Uncertainty**  
Diego Valle-Escobar and Luis Cisternas, Department of Chemical Engineering and Mineral Processing Engineering, Universidad de Antofagasta, Chile
- 20. Anodic Kinetic Analysis to Produce Lithium Hydroxide from Lithium Sulfate using Reactive Electrodialysis**  
Moisés Gonzáles and Adrian Quispe, Center for Advanced Research in Lithium and Industrial Minerals, University of Antofagasta, Chile and Mario Grageda, Chemical Engineering Department, University of Antofagasta, Chile
- 21. Optimization of Ozone Cyanide Detoxification in Mining Effluents Using Predictive Modeling**  
Kukuli Zegarra and Honorato Sánchez, Department of Metallurgical Engineering, Universidad Nacional de San Antonio Abad del Cusco, Peru
- 22. Copula-Based Geometallurgical Domaining: A Case Study in Copper Leaching**  
Bastian Aliste and Heber Hernández, Facultad de Ingeniería y Negocios, Universidad Santo Tomás, Chile

