



29th International Applied Geochemistry Symposium IAGS2022

Facing the challenges of today using applied geochemistry

Viña del Mar, Chile

Held in memory of our friend and colleague Dr. Peter Alan Winterburn

POSTER PRESENTATIONS

Technical Session 1: Exploration geochemistry: Present and future challenges

1	Sediment geochemistry of the La Serena Sheet, Coquimbo region.	Felipe Astudillo, SERNAGEOMIN, Chile.
2	Preliminary results of the Sediment Geochemical Database of the Taltal Sheet, Antofagasta and Atacama regions, Chile.	Pablo Oliva, SERNAGEOMIN, Chile.
3	The application of physical and chemical characteristics of tourmaline from stream sediments: a novel tool in the exploration for porphyry Cu-Au-Mo deposits.	Beth McClenaghan, Geological Service of Canada, Canada.
4	Advanced PIMs Analysis: Case Study in the Domeyko Cordillera Comparing Optical and Automated Methods.	Marcelo Vega, Teck Resources Chile Ltda., Chile.
5	Provenance Analysis of Placer Gold from Pureo Area, Southern Chile Coastal Cordillera.	Pablo Becerra, Universidad Austral de Chile, Chile.
6	Distribution of Rare earth Elements in drainage sediments of the Arica and Parinacota and Tarapacá regions. Northern Chile: preliminary results.	Rafael Mardones, SERNAGEOMIN, Chile.
7	Apatite of detrital origin from Quipisca-Parca Canyon as an indicator of the presence of Porphyry Copper Deposits.	Héctor Pizarro, Universidad de Chile, Chile.
8	Use of Porphyry Indicator Zircons (PIZs) in sedimentary record as an additional exploration tool for buried porphyry copper deposits under a transported gravel cover from the Atacama Desert.	Héctor Pizarro, Universidad de Chile, Chile.



9	Geochemical and Spectral Characterization of Lajitas South: New Target Located in The Maricunga Belt, Chile.	Magaly Antileo, Universidad de Chile, Chile.
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Technical Session 2: New field portable technologies: Improving the analysis and turnaround times in exploration

10	Investigating sources of data variability in short-wave infrared and visible to near infrared spectroscopy.	McLean Trott, Queen's University, Canada.
11	Quantifying the invisible: pXRF analyses of three boreholes.	Ross Knight, Geological Survey of Canada, Canada.

Technical Session 4: Geochemistry applied to mineral characterization for geological, geometallurgical and resource modeling

12	Phenomenological approach to understanding geometallurgical properties from geochemistry and geotechnical properties.	Alexis Pereira, Universidad de Chile, Chile.
13	Types of wollastonite, and identification of host skarns and their protoliths at the St. Lawrence Wollastonite Skarn, SE Ontario.	Andrés Canales, Universidad del Desarrollo, Chile.

Technical Session 5: Environmental geochemistry: Closing the gap for sustainable mining and development / Mine tailing revalorization (UNESCOIGCP682)

14	Environmental impact caused by the collapse of the Las Palmas Tailing Dam based on geochemical analysis of natural and tailing sediments.	María Paz Muñoz-Arzola, Universidad Mayor, Chile.
15	Copper mobility in soils affected by anthropogenic activities in northern and central Chile.	Daniela García, Universidad Católica del Norte, Chile.
16	Geochemical assessment of sediments around tailings to determine the pollution contamination by metals at the location of Alhué, Metropolitan Region, Central Chile.	Estefanía Muñoz, Universidad Santo Tomás, Chile.



Technical Session 6: Water and hydrogeochemistry: Challenges in exploration, mining, and sustainable development

17	Valuable elements in geothermal systems in Central-Southern Chile: preliminary selection of valuable elements and conditioning geological factors.	Belén Muñoz, Universidad Santo Tomás, Chile.
18	Can Chile extract Li from geothermal brines? Statistical approach to determine geochemical factors in Li enrichment.	Alejandra Acuña, Universidad Santo Tomás.
19	A coupled isotopic-geochemical assessment of hydrological dynamic in headwater Andean basins in north-central Chile.	Ricardo Oyarzún, Universidad de La Serena, Chile.
20	Brine exploration from the geothermal complex of the Liquiñe-Ofqui fault zone as a response to power generation.	Felipe Ruiz, Universidad Santo Tomás, Chile.

Technical Session 8: Linking geology and geochemistry to viticulture and wine / 1st. IGVWS2022

21	Geomorphological and parental material influences on the terroir of a <i>vitis vinifera</i> crop in Casas Viejas, central Chile (34°23'S, 71°19'O).	Álvaro Espinoza, Universidad de Chile, Chile.
22	Kalycatas Guide: Deconstructing Terroir.	Rodrigo Ortega, Guía Kalycatas, Chile.
23	Knowledge dialogues: Biodinamic agriculture and Mapuche Az Mapu.	Milton Almonacid, University of Copenhagen, Denmark.