

KLS – SC66

Professional Development Course

Structural Geology and GIS for Discovery

A 3-day course designed for mineral exploration professionals seeking an integrated approach to structural geology and GIS for vectorization of mineral deposits.

Jan 25 – 27

2024

Vancouver

Dr. Matías Sánchez
Fault Rocks Inc.

Structural Geology and GIS for Discovery

DESCRIPTION

The systematic incorporation of structural aspects to the mapping and interpretation of geological, geochemical and geophysical data at different scales is a fundamental piece for selecting the area to be explored and, ultimately, for the successful generation of exploration targets. The main objective of this course is to understand modern concepts of structural geology that can be applied to GIS to characterize and target mineral deposits. Practical sessions include techniques for interpreting remote sensing data, including magnetometry, seismic reflection, satellite imagery and digital elevation models. Special emphasis is placed on the ability to recognize, outline and understand, at different scales, the styles and types of fault and fracture associated with the emplacement and architecture of porphyry and epithermal systems.

WHO SHOULD ATTEND

This 3-day course is intended for explorers who want to delve into a modern and practical approach to structural geology that integrates tectonic, geophysical, geochemical and metallogenic concepts for the vectorization of mineral deposits. The course includes digital and manual practical sessions on remote sensing interpretation, map and cross section construction, GIS spatial analysis and stereographic techniques.

THESE NOTES AND PRESENTATION MATERIALS ARE FOR COURSE PARTICIPANTS ONLY AND ARE NOT TO BE REPRODUCED/COPIED IN ANY FORM - HARDCOPY OR ELECTRONIC

Structural Geology and GIS for Discovery

PRESENTER



Matías Sánchez is a structural geologist, Director of Fault Rocks Inc., and has 20 years of experience in mining exploration and research projects of porphyry and epithermal systems in Chile, Argentina, Peru, Ecuador, Turkey, Greece and Western Canada. Matías graduated from Concepción University Chile, completed an M.Sc. and Ph.D. from the Royal Holloway University of London and a postdoctoral fellowship at the Mineral Deposit Research Unit (MDRU), UBC. His specialty is integrated interpretations of geological data, geophysics, satellite imagery and elevation models for structural mapping and frameworks generation for exploration. Matías continuously develops practical GIS techniques for structural analysis, publishes on structural geology and magnetic data interpretation and teaches professional development courses for the mining industry.

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