

Geometallurgy Practical Short Course



May 22-25, 2018
Vancouver, BC Canada

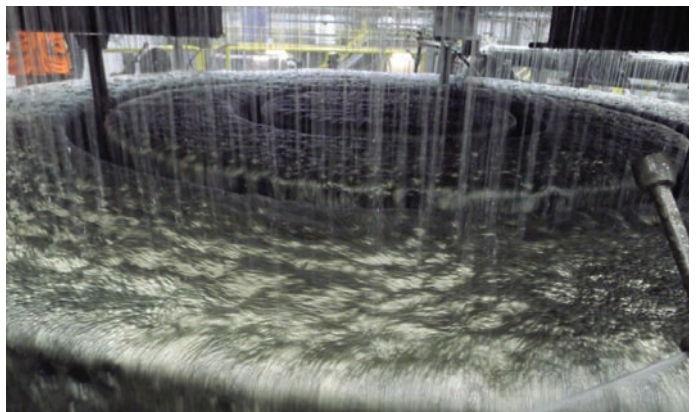
Overview

Quantitative and spatially-constrained geometallurgy data characterize ore deposits to maximize the effectiveness of processing, including comminution, liberation, recovery and environmental management. Ideally, each block in a 3-D resource model is then attributed with multiple rock parameters and assigned a dollar value. This improved geometallurgical knowledge results in reduced technical risk, improved forecasting, economically optimized mineral production, and addresses environmental concerns.



Course Content

This four-day course comprises lectures, practical exercises, and a range of computer-based modelling exercises. The course content covers a variety of techniques to enhance information produced by geologists that is relevant to geometallurgical decision-making. The course emphasizes the use of tools to systematically collect and analyze data. Upon completion of the course, participants should be able to begin implementing geometallurgical data collection and analysis.



The course is intended for exploration and mine geologists, engineers and mineral processors. Participants should be familiar with basic office software such as Excel and PowerPoint; other specialized software will be introduced.

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Registration online mdru.ubc.ca

Course Presenters

Dr Ron Berry (Associate Professor, CODES, UTAS) has been working in geometallurgy since 2005. He has expertise in automated mineralogy, image processing and numerical methods, and is the co-developer of MIN-SQ.

Dr Julie Hunt (Research Associate in Geometallurgy, MDRU) has been working in geometallurgy for the past 10 years. She has over 15 years experience in mapping and mineral deposit studies and is leading research, education and training programs for geometallurgy.

Julie A. Hunt and Ron F. Berry, 2017. Geological Contributions to Geometallurgy: A Review. Geoscience Canada, v. 44, p. 103-118. DOI <https://doi.org/10.12789/geocanj.2017.44.121>

Prof. Bern Klein (UBC-NBK) has more than 25 years of experience including designing processes for over 300

metallurgical studies. He currently focuses on technology and innovation for improved energy efficiency in comminution, Mine-to-Mill Integration, sensor-based sorting and reduced environmental footprints.

Prof. Greg Dipple (UBC-BRIMM) has dedicated his career to evaluating mineral reactions and fluid-rock interactions, including ore systems and mine wastes. His research integrates field data and forward models to evaluate mass transport and reactions, and uses geochemical tracers to monitor fluid-rock interactions and CO₂ fixation.

Invited Speakers

Janet Baron (Manager, Hydrometallurgy at AuTec)

Prof. Peter Winterburn (Industrial Research Chair in Exploration Geochemistry, MDRU)

Course Topics

- Geomet Principles
- Waste Characterisation
- Comminution
- Statistics for Geomet
- Comminution Lab
- Data Analysis
- Metallurgical Recovery
- Major Project: full day, hands-on
- Recovery Lab

Details

Course Materials: Printed hard-copy guidebook included.

Course Includes: Daily lunches, coffee/tea, refreshments

Cost (\$CAD)

MDRU Corporate Members

Non-Members

Students

Early bird/after May 1

\$1440/\$1690 + GST

\$1740/\$1990 + GST

\$540/\$690 + GST