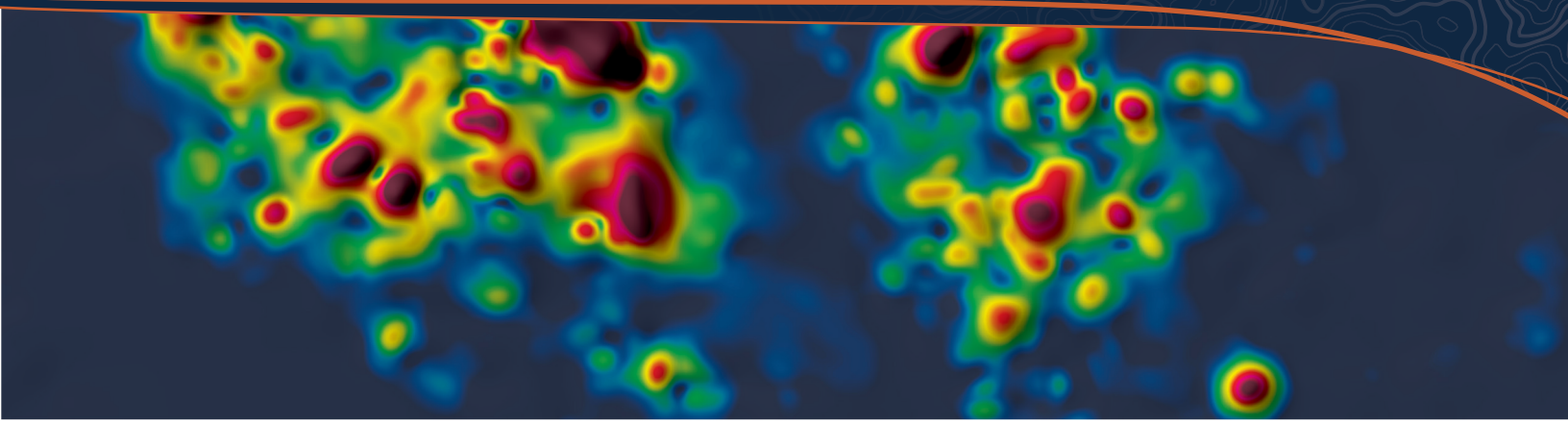
Geophysics for Mineral Exploration Short Course

MDRU
MINERAL DEPOSIT RESEARCH UNIT



February 26-28, 2018
Vancouver, BC Canada

Overview

This innovative training course uses applied learning techniques and real-world mineral exploration scenarios to train participants in the key principles of interpreting geophysical data sets, without the need for complex mathematics and physics.

The course teaches participants to integrate geological and geophysical methods to optimise mineral exploration opportunities.

Why Take This Course?

The future of mineral exploration is searching for deposits undercover where geophysics will increasingly play a role in your exploration success.

Savvy explorers will recognize the importance of increasing their skill sets to utilize geophysical data sets to understand what they can and cannot tell us about the geological environment.

Who Should Take This Course?

Industry, government and student **geologists** seeking to understand how to use geophysical datasets to explore and map

Geophysicists seeking to improve their interpretation skills.

Key Outcomes

- Increased capability in best-practise geophysical interpretation
- Ability to solve exploration challenges with geophysical data sets
- Understanding the capabilities and limitations of various geophysical data types
- Awareness of the importance of geophysics in the future of mineral exploration

Course Instructor

Prof. Mike Dentith has more than 25 years of experience in teaching, research and consulting in mineral exploration geophysics. He is the coauthor of the award-winning textbook, *Geophysics for the Mineral Exploration Geoscientist*, on which this course is based. He has run professional courses for industry, government and professional societies in Australia, South American, Asia and Africa.

Centre for EXPLORATION TARGETING

Signature geophysics

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DAY 1

Key principles of magnetics

1. What is geophysics and how is it used in exploration?
2. Practical exercise 1 – geophysical anomalies and exploration strategy
3. Geophysical data: Acquisition to display
4. Practical exercise 2a- Data display
5. Data enhancement
6. Practical exercise 2b – data enhancement
7. Gravity and magnetic methods
8. Practical exercise 3a – enhancing gravity and magnetic data

DAY 2

Key principles of gravity

9. Petrophysics
10. Practical exercise 3b – analysis of petrophysical data
11. Qualitative interpretation
12. Practical exercise 3c – interpretation of gravity and magnetic maps for exploration targeting
13. Quantitative interpretation (modelling)
14. Practical exercise 3d – modelling magnetic anomalies for exploration targeting.

DAY 3

Key principles of electrical and EM methods, seismic & radiometrics

15. Electrical and electromagnetic methods
16. Practical exercise 5 – interpreting electrical and electromagnetic data for exploration targeting
17. Radiometric data

Registration online mdru.ubc.ca

Details

Course Materials: A printed hard-copy guidebook with course lectures, practical exercises, and modelling exercises will be included.

Course Includes: Daily lunches, coffee/tea, refreshments, and a social event for participants on Monday, Feb. 26th.

Cost ($CAD)	Full course/Days 1&2 only
MDRU Corporate Members	$960 / $660 + GST
Non-Members	$1170 / $820 + GST
Students	$390 / $280+ GST