



Structural Geology for the Mine Geologist and Structural Modeling

Presenters

Dr Andy Killick

Dr Christoph Tuitz

22 - 23 August 2019
Glenhove Conference Centre

About the Course

The course will start with an overview of stress and strain concepts, as well as a refresher on stereograms in order to provide a basis for the rest of the course. A significant amount of time will be devoted to faulting but folding will also be covered. The final sessions will deal with mapping and borehole logging techniques. Although the course is confined to a lecture room setting this is intended as a practical introduction, keeping theory to a minimum.

Who should Attend

This introductory course is designed for those who have a degree in geology and require a refresher or exposure to tools and techniques to enable them to better understand the geological structure of the environment within which they work. Relatively inexperienced exploration and mine geologists who are engaged in mapping or the interpretation of geological structure are likely to benefit from the course. Experienced practicing structural geologists wanting a refresher in introductory techniques are welcome.

Course Outline - Day 1

- Stereographic Projections
- Mechanical Behaviour of Rock
- Fault Classification & Terminology
- Movement Direction Indicators
- Tabular intrusions / Folding
- Structural Mapping
- Borehole Logging
- Interpretation of Structural Data
- Core Interpretation
- Structural modeling

Course Outline - Day 2

- The Role of Structural Geology in Exploration and Geotechnics
- Structural Mapping Techniques
- 3D Visualization and Interpretation of Geology
- Structural Analysis - Faults and Fault Systems
- Structural Analysis - Folds and Fold System
- Model Geometries
- Data Types and Verification
- Explicit Modelling
- Implicit Modelling
- Model Validation
- Model Applications

Registration Fees

Structural Geology for the Mine Geologist - 22 August

- Member - **R3500**
- Non Member - **R4250**
- Academic - **R2000**
- Retired/Student - **R2000**

Structural Modeling - 23 August

- Member - **R3500**
- Non Member - **R4250**
- Academic - **R2000**
- Retired/Student - **R2000**

Register Here

16 GSSA CPD points
2 SACNASP CPD points

Structural Combo - 22 & 23 August

- Member - **R5250**
- Non Member - **R6750**
- Academic - **R2750**
- Retired/Student - **R2500**