The Basics of Geology, Mining, & Processing

Basics of Geology, Mining, and Processing
Accredited for 12.5 hours of IIROC Professional Development CE

www.mine.queensu.ca/Professional-Development/Basics-of-Mining.html
Objectives

- Provide a better understanding of:
  - Technical terms and fundamentals
  - Processes
  - Meaning of information
  - Technical risks

Focus on integration of geology, mining, and processing
How will we do this?

- Teach technical background
- Relate our own personal experiences
- Review examples
Who should attend

- Financial analysts
- Non-technical professionals working for mining companies
- Natural-Resources government officials
- Private investors
Course content

Geology

- General geology

- Deposit characteristics
  - Mineralogy
  - Shape, Ore controls / Limits of ore
  - Size, grade and tonnage

- Focus on gold, base metals, uranium, diamonds, iron ore, coal
Course content

Resource Estimation & Reporting

- Sources of error
- Techniques and uses
- Classification Standards
- Qualified Person
- NI 43-101
Course content

Minining Methods

• Open Pit & Underground
• Mobile equipment
• Open pit design parameters
• Underground mining methods
• Costs and Productivity

Basics of Geology, Mining, and Processing for the Investment Community Professional Development Seminar
Course content

Processing & Extraction

- Milling processes & operations
- Metal extraction & refining
- Focus on metals, gold, nickel, copper, steel
Case Studies

- Due-diligence process
- Identification of red flags
- Review of technical reports, press releases, or corporate presentations
George McIsaac eng., P.Eng., Ph.D.

- Mining Engineer
- Mineral Economist
  - Strategic Planning
  - Economic Evaluation
- Adjunct Professor @ Queen’s University
- Former Superintendent of Technical Services @ El Indio Mine, Barrick Chile

Basics of Geology, Mining, and Processing for the Investment Community Professional Development Seminar
David A. Love
Ph.D.

- Geologist
  - Mineral deposits
  - Igneous rocks
  - Geochemical Exploration

- Adjunct Professor @ Queen’s University
- Independent consultant:
  - Geochemistry in Mineral Exploration, and Ore Deposit Geology

Basics of Geology, Mining, and Processing for the Investment Community Professional Development Seminar
Boyd Davis
Ph.D.

- Chemical Process Metallurgist
  - Process Development
  - Process Analysis
  - Chemical Thermodynamics

- Adjunct Professor @ Queen’s University
- President of Kingston Process Metallurgy Inc.
  - Bench-scale contract process metallurgy company
  - Focus on novel process development for clients

Basics of Geology, Mining, and Processing for the Investment Community Professional Development Seminar
Private Courses also available

- Groups of 20 or more
- Past clients include
  - Banks & Investment Houses
  - Mining Companies
  - Accounting Firms
- Course content tailored to your needs

Basics of Geology, Mining, and Processing for the Investment Community Professional Development Seminar
For more information

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