

Learning Opportunities



SSPI

Scott-Smith Petrology Inc

Kimberlite Geology

The Foundation of Diamond
Mining and Exploration

Aim

- facilitate “hands on learning” to advance the skills and increase the effectiveness of geologists on diamond-related projects
- fast track an understanding of kimberlite geology for direct practical application in the diamond industry
- maximise the value of drillcores, related data and materials
- assist field or project geologists and managers recognise the value, complexities and methodology of kimberlite geology in exploration, evaluation and mining
- participate in the development of specialists to undertake a higher level of kimberlite geology during mineral resource development or research
- contribute to ongoing professional development and accreditation
- foster a passion for kimberlites

Who Should Participate

Any diamond industry professionals or academics interested in furthering their understanding of kimberlite geology and enhancing their contribution to projects. Courses can be tailored to specific audiences such as exploration and mining geologists, or managers and non-geologists.

Kimberlite Basics

"Kimberlite Basics 1" is an established course which provides the foundation. "Kimberlite Basics 2 to 4" cover further fundamentals and focus on the economic implications and application of kimberlite and related rock geology. "In Depth Courses" explore particular topics in more detail.

Kimberlite Basics 1

The Foundation

Content: Introduction to the nature of kimberlite magmas, emplacement processes, terminology and classification schemes as used in exploration and the development of geological models.

Kimberlite Basics 2

Economic Implications of Magma Type: Kimberlite and Related Rocks.

Content: Common magma types encountered during diamond exploration, their recognition, geology and diamond potential.

Kimberlite Basics 3

Economic Implications of Kimberlite Emplacement

Content: Contrasting types of kimberlite emplacement products, their diamond potential and other economic consequences.

Kimberlite Basics 4

Economic Kimberlite Geology

Content: How to investigate kimberlites. Practical methods and applications from logging to the development of geological models including sampling, petrography, point counting and dilution.

In Depth Courses

Kimberlites In Depth

Tuffisitic or Class 1 Kimberlites

Pyroclastic or Class 2 Kimberlites

Resedimented Volcaniclastic or Class 3 Kimberlites

Hypabyssal Kimberlite Sheets

Hypabyssal Kimberlite Petrology

Related and Unrelated Rocks In Depth

Lamproites

Melnoites and Lamprophyres

Orangeites or Group 2 Kimberlites

Other Diamond Host Rocks

Basalts and Other Volcanic Rocks

Area or Case Studies

Examples

Kimberlites of the Prairies, the southern Slave or southern Africa, Kimberlites and Related Rocks of India or Montana.

Coaching and Mentoring

One-on-one or small group coaching and mentoring develops partnerships with participants to guide the understanding and interpretation of client project geology.

Client project rocks and/or the SSPI sample collection can be utilised to increase confidence and improve critical thinking while enhancing the contribution of participants to their projects.

Other Possibilities

Managers, Analysts and Mining Staff

Shorter courses highlight the importance and essence of economic kimberlite geology, including methods and applications.

Workshops

Thematic workshops with contributions from participants improve and practice technical presentation skills and encourage scientific debate.

Interest or Motivational Sessions

Selected topics could include: new textural classifications, field visits, or recent advances in kimberlite geology.

Publications

Writing or critiquing papers and reports on kimberlites and related topics fosters the practice of rigorous science and reporting.

Instruction at Client Facilities

On-site training discussed on request.

Learn.

Experience.

Apply.

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