

NEW DIMENSIONS

UNIQUE OPPORTUNITIES TO LEARN ABOUT KIMBERLITES

PRIVATE CONTRIBUTORS

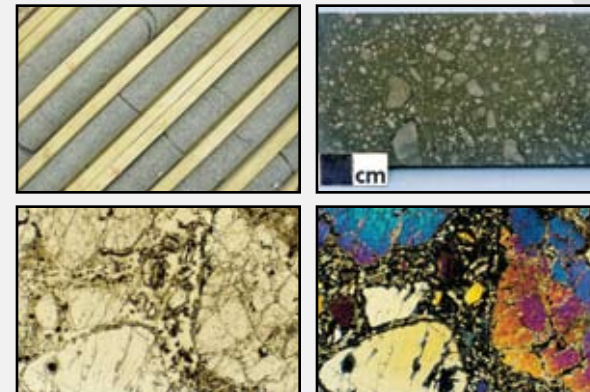


SSPI
Scott-Smith Petrology Inc

“Hands On Learning”: Kimberlite geology is the foundation of diamond mining and exploration. Through the examination of rocks on all scales, microscopic to megascopic, participants gain a practical understanding of diverse topics and their application to diamond projects. The rocks are placed into context through lectures, handouts, reprints, tests, exercises, reviews and discussion.

Rock Collection: The extensive and ever growing rock collection includes several full drillcores and over 3500 samples from more than 15 countries, including most major diamond mining areas around the world and over 100 bodies from across Canada.

Facility: The North Vancouver learning facility includes a rock room and a laboratory/lecture room containing three petrographic workstations each with research level binocular and polarising microscopes. Catering to small groups, the facility is designed to encourage personal interaction.



Opportunities to Learn: Kimberlite Basics 1 “The Foundation” (see outline over) is a well established course which covers the fundamentals and provides the basis for other learning opportunities. Kimberlite Basics 2 to 4 focus on the economic implications and applications of kimberlite geology. In Depth courses explore specific topics in greater detail. In addition, one-on-one or small group coaching and mentoring develops partnerships between participants and the coach.

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 alike.

Coach: Barbara Scott Smith, P.Geo., shares over 30 years of worldwide kimberlite geology experience. After completing a PhD on alnoites and lamproites from Greenland, several years were spent working for De Beers based in South Africa. As an independent consultant since 1982, Barbara has completed projects relating to worldwide diamond exploration and mining in Australia, Africa, India, Russia, China, USA, Europe, Brazil and most kimberlite fields across Canada. Research involvement continues as Adjunct Professor at the University of British Columbia. Barbara co-convoked the 8th International Kimberlite Conference and the International Workshop on Kimberlite Emplacement and was Guest Editor of both of the proceedings volumes.

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CORPORATE CONTRIBUTORS

1 st to 8 th International Kimberlite Conferences	Kimberley Diamond Co.
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KIMBERLITES BASICS 1

Course Outline

DAY 01

- Lecture:** Hypabyssal Kimberlites
Practical: Hypabyssal Kimberlites 1: Canada and Worldwide
Review: Hypabyssal Kimberlites



DAY 02

- Practical:** Mantle Xenoliths/Xenocrysts
Lecture: Introduction to 'Related Rocks'
Practical: Introduction to 'Related Rocks'
Review: Kimberlites and 'Related Rocks'
Exercise: Petrographic Descriptions of Unknowns

DAY 03

- Lecture:** Hypabyssal Kimberlite Sheet Emplacement
Practical: Hypabyssal Kimberlites 2: Sheets
Lecture: Introduction to Volcanology Pertinent to Kimberlites
Videos: Andesitic, Basaltic and Carbonatitic Volcanism
Practical: Basaltic Eruption Products: Magmatic and Phreatomagmatic

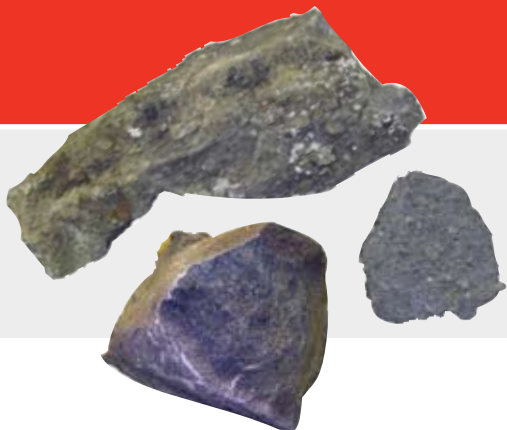


DAY 04

- Lecture:** Introduction to Kimberlite Mineralogical and Textural Classifications and the Geology of Kimberlites across Canada
Practical: Introduction to Pyroclastic Kimberlites across Canada
Animation: Emplacement of the Victor Kimberlite, Ontario
Lecture: Geology of Pyroclastic Kimberlites in Canada
Review: Pyroclastic Kimberlites

DAY 05

- Practical:** Hypabyssal Kimberlites 3: Xenolith Digestion, Segregationary Textures
Lecture: Tuffisitic Kimberlites (TK)



DAY 06

- Practical:** Tuffisitic Kimberlites (TK): Southern Africa and Canada
Animation: Southern Africa Kimberlite Pipe Emplacement
Lecture: HK to TK Transitions
Practical: HK to TK Transitions
Lecture: TK-related Country Rock Features
Practical: TK-related Country Rocks

DAY 07

- Lecture:** Resedimented Volcaniclastic Kimberlites (RVK)
Lecture: Geology of some Kimberlites at Lac de Gras, Canada
Practical: RVKs: Lac de Gras and Botswana
Review: Contrasting Kimberlite Emplacement Products and Pipe Geology
Lecture: Economic Kimberlite Geology



DAY 08

- Exercise:** Building a Geological Model
Lecture: Kimberlite Drillcore Logging
Practical: Introduction to Logging Kimberlites

