

FEES

	FULL-COURSE	GEOPHYSICS COURSE	FULL & GEOPHYSICS COURSES
FIRST DELEGATE	ZAR 12,500	ZAR 3,500	ZAR 15,000
SECOND DELEGATE	ZAR 12,000	ZAR 3,250	ZAR 14,750
THIRD DELEGATE	ZAR 11,500	ZAR 3,000	ZAR 14,000
FOURTH DELEGATE	ZAR 11,000	ZAR 2,750	ZAR 13,250
FIVE + DELEGATES	ZAR 10,500	ZAR 2,500	ZAR 12,500

1 ZAR = 0.13 US \$ at time of printing

2-6th
FEB 2009

UNIVERSITY OF CAPE TOWN
SOUTH AFRICA

Registration and Course Fees

Registration is on a first-come, first-served basis and spaces are limited to 30 delegates for the full 4-day course, and 45 delegates for the optional geophysics course. Please fill in the enclosed registration form and fax to Jeanine Linossi at +27 (0)21 531-9887, or email the details to jeanine.linossi@minserv.co.za. Course fees are payable upon registration. Cancellation refunds less a 15% fee will only be considered before Friday January 2nd, 2009.

All-inclusive fees for the full 4-day course are listed above; the course is not offered on the basis of partial attendance. A discount is offered for multiple delegates from single organizations. The geophysics course is offered separately, and delegates may choose to attend either the 4-day course or the geophysics course, or both.

The fees include course notes (hard copies of the PowerPoint slides of the lectures), on-site mid-morning tea/coffee with baked goods and mid-afternoon tea/coffee. Lunch is not provided but there are several nearby eateries on the University of Cape Town grounds. Basic stationary (notepads and pens) will be provided.

SHORT COURSE ON KIMBERLITES, DIAMONDS AND THE UPPER MANTLE



MINERAL SERVICES



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SHORT COURSE ON KIMBERLITES, DIAMONDS AND THE UPPER MANTLE

COURSE OUTLINE

Mineral Services is presenting a course entitled “Kimberlites, Diamonds and the Upper Mantle” in Cape Town, South Africa. The course has been scheduled for the week before the annual mining Indaba in Cape Town. It is targeted at diamond exploration professionals and presents an overview of kimberlite geology, including the newly established geological nomenclature and classification scheme, and a review of upper mantle petrology and the genesis of diamond. The course content (see details on right) provides a framework for the interpretation of petrographic, indicator mineral and diamond datasets and the optimal application of this information at various stages of diamond exploration. For 2009, an optional day covering the application of geophysics to diamond exploration has been added to the agenda. The course program includes both lectures and hands-on practicals where participants will get a chance to look at and handle the rocks and diamonds that are the topics of the lectures.

The lecturers include world leaders in their fields and are up-to-date by virtue of their active involvement in various aspects of diamond exploration projects in Canada, South Africa and elsewhere around the globe. The lecturing team from Mineral Services for this course includes Dr John Gurney, Dr Tom Nowicki, Dr Craig Smith, Dr Branko Corner, Mr Casey Hetman, Mr Mike Baumgartner and Mr Bravo Mukodzani. Prof Anton le Roex is a guest lecturer from the University of Cape Town.

SHORT COURSE ON KIMBERLITES, DIAMONDS AND THE UPPER MANTLE

COURSE DETAILS

DAY 1: Kimberlites

Introduction to kimberlites & related rocks - [Tom Nowicki](#)

Descriptive geological nomenclature and classification - [Casey Hetman](#)

Geochemistry and origin of kimberlite magmas - [Anton le Roex](#)

An introduction to kimberlite geology and emplacement - [Casey Hetman](#)

The geology of Kimberley Type (Class 1), Prairies Type (Class 2) and Lac de Gras Type (Class 3) kimberlites - [Casey Hetman](#)

Practicals: Kimberlites in hand specimen
Kimberlites in thin section

DAY 2: Upper Mantle Petrology

Mantle overview and rock types - [John Gurney](#)

Pressure, temperature and geotherms - [Mike Baumgartner](#)

Ages of diamonds - [Craig Smith](#)

Practicals: Overview of mantle rocks in the Mantle Room
Xenoliths in hand specimen
Xenoliths in thin section

DAY 4: Kimberlite Indicator Minerals

Overview of kimberlitic indicator minerals (KIM)

- [Mike Baumgartner](#)

Use of indicators in exploration - [Tom Nowicki](#)

Early-stage evaluation of kimberlites - [Mike Baumgartner](#)

Practicals: Laboratory tour
KIM recognition in heavy mineral concentrate
KIM Surface textures

DAY 3: Diamonds

Diamond formation through time - [John Gurney](#)

Diamonds - characteristics and value - [John Gurney](#)

Interpretation of diamond data in exploration and evaluation - [Tom Nowicki](#)

Practicals: Diamond characteristics and specimens
Diamond valuation exercise

DAY 5: Geophysics

(optional: [Branko Corner](#), [Bravo Mukodzani](#))

Petrophysical properties; relevant exploration and evaluation methods

Basic principles, field procedures

Interpretation, filters and kimberlite identification

Kimberlite case studies: property scale and regional scale