

Abstract Index

8IKC Extended Abstracts – Table of Contents – *alphabetical by Author(s)*

Red Abstract numbers are linked to Abstract

Authors

Abstract Title

File Name (.pdf)

M Anand, LA Taylor, WD Carlson, D-H Taylor, NV Sobolev

Diamond Genesis Revealed by X-Ray Tomography of Diamondiferous Eclogites

Keywords: HRCXT, Udachnaya, Yakutia, macro-diamond, kimberlite, metasomatism

FLA_0083

M Anand, LA Taylor, KC Misra, WD Carlson, NV Sobolev

Diamondiferous Eclogite Dissections: Anomalous Diamond Genesis?

Keywords: diamond inclusions, Udachnaya, Yakutia, macrodiamond, kimberlite, metasomatism, in situ analysis, cathodoluminescence

FLA_0084

EC Anckar, JJ Gurney, C Thiart

A Statistical Approach to Finger-Print Run-of-Mine Diamonds using FTIR Spectra, Size Distributions and Physical Characteristics

Keywords: nitrogen, cathodoluminescence, database, diamond populations, discriminant analysis

FLA_0092

CM Appleyard, AP le Roex, DR Bell

The Geochemistry of a Suite of Eclogite Xenoliths from the Rietfontein Kimberlite, South Africa

Keywords: off-craton, petrography, mantle derived, basaltic, oxygen isotopes, subduction

FLA_0044

CM Appleyard, KS Viljoen, R Dobbe

A Study of Eclogitic Diamonds and their Inclusions from the Finsch Kimberlite Pipe, South Africa

Keywords: syngenetic, Type IaAB, geothermometry, cathodoluminescence, octahedral growth

FLA_0045

DP Araujo, JC Gaspar, Y Fei, EH Hauri, R Hemley, GP Bulanova

Mineralogy of Diamonds from the Juina Province, Brazil

Keywords: diamond, Juina, lower mantle, transition zone, morphology, cathodoluminescence, Ir, SIMS

FLA_0279

KA Armstrong, T Nowicki, GH Read

Kimberlite AT-56: A Mantle Sample from the North Central Superior Craton, Canada

Keywords: Attawapiskat, websterite, eclogite, Ni thermometry

FLA_0277

Authors

Abstract Title

File Name (.pdf)

JP Armstrong

Diamond Discovery in the Slave Craton: Compilations of Exploration Data as Tools for Future Discovery

Keywords: data base, indicator mineral, drill log, magnetic, compilation

FLA_0190

JP Armstrong, RL Barnett

The Association of ZN-Chromite with Diamondiferous Lamprophyres and Diamonds: Unique Compositions as a Guide to the Diamond Potential of Non-Traditional Diamond Host Rocks

Keywords: chromite-in-diamond, Wawa, Yellowknife, spinel, amphibole

FLA_0230

JP Armstrong, M Wilson, RL Barnett, T Nowicki, BA Kjarsgaard

Paragenesis of Primary Magmatic Sr-Ba-Mg-Ca Carbonates from Ultra-Fresh Hypabyssal Kimberlite, Lac de Gras Kimberlite Field, Slave Craton, NWT Canada

Keywords: monticellite, spinel, calcite, segregation, solvus, dolomite

FLA_0189

F Arnott, EO Kostlin

Petrophysics of Kimberlites

Keywords: geophysical exploration, physical properties, magnetics, density, resistivity, seismic velocity, gamma radiation

FLA_0389

IV Ashchepkov, NV Vladykin, NP Pokhilenko, NV Sobolev,

EV Malygina, SG Kuligin, YI Ovchinnikov, NP Afanasiev,

GM Mkrtychan, AY Rotman, LM Pokhilenko, AM Logvinova,

OS Khmel'nikova, SI Kostrovitsky, AV Tolstov

Clinopyroxene Geotherms for the Mantle Columns Beneath Kimberlite Pipes from Siberian Craton

Keywords: geotherm, thermobarometry, layering, garnet, pyrope, ilmenite, geochemistry, Siberian craton

FLA_0355

S Aulbach, WL Griffin, SY O'Reilly, TE McCandless

The Lithospheric Mantle Beneath the Buffalo Head Terrane, Alberta : Xenoliths from the Buffalo Hills Kimberlites

Keywords: lithospheric mantle, peridotite, xenolith, xenocryst, metasomatism, Archean, Buffalo Head Terrane, Alberta

FLA_0010

Authors

Abstract Title

File Name (.pdf)

S Aulbach, WL Griffin, NJ Pearson, SY O'Reilly, K Kivi, BJ Doyle
Origins of Eclogites Beneath the Central Slave Craton

Keywords: xenoliths, mantle, subduction, rutile, Hafnium, Carbon, Lac de Gras

FLA_0011

JA Ayer, DA Wyman

Origin of Diamondiferous Archean Lamprophyres in the Evolution of the Michipicoten and Abitibi Greenstone Belts

Keywords: Superior Province, Wawa area, Cobalt area, petrogenesis, subduction, stability field, metastable

FLA_0291

WP Barnett

Subsidence Breccias in Kimberlite Pipes: An Application of a Fractal Analysis

Keywords: volcanology, Venetia, size distribution, shape analysis, statistics

FLA_0314

IB Basson, G Viola

Passive Kimberlitic Fluid Emplacement into Dilating Dyke-Fracture Systems in South Africa

Keywords: kimberlite, South Africa, Group II, dykes, structural, tectonic, emplacement mechanisms, dikes

FLA_0387

M Baumgartner, E Ankar, H Grutter

Compositional Classification of 'Kimberlitic' and 'Non-Kimberlitic' Ilmenite, with Implications for Visual Selection and Discrimination

Keywords: kimberlite, lamprophyre, exploration, oxidation

FLA_0281

DR Bell, M Gregoire, TL Grove, ND Chatterjee, SA Bowring
Silica and Carbon Deposition in Kimberley Peridotites

Keywords: metasomatism, diamond, magnesite, orthopyroxene, fluid, Archean, mantle, tectosphere

FLA_0289

P Berendsen, RL Cullers, A Barczuk, A Al-Ammar

New Data on Kimberlites and Lamproites in Eastern Kansas, U.S.A.

Keywords: structure, drill hole information, morphology, petrography

FLA_0288

AK Berryman, BH Scott Smith, BC Jellicoe

Geology and Diamond Distribution of the 140/141 Kimberlite, Fort a la Corne, Central Saskatchewan, Canada

Keywords: grade, pyroclastic, deposit, evaluation, drilling, drill vent

FLA_0373

Authors

Abstract Title

File Name (.pdf)

TC Birkett, TE McCandless, CT Hood

Petrology of the Renard Igneous Bodies: Host Rocks for Diamond in the Northern Otish Mountains Region, Quebec

Keywords: kimberlite, diatreme, exploration, mineralogy, melnoite

FLA_0215

AV Bobrov, Yu. Litvin, V Butvina

Diamond Synthesis in Sulfide Medium at 6-8 Gpa: Application to Natural Data

Keywords: experiment, pressure, nucleation, crystal, sulphide

FLA_0145

AV Bobrov, EM Verichev, VK Garanin, KV Garanin,

GP Kudryavtseva

Xenoliths of Mantle and Metamorphic Rocks from the

Diamondiferous V.Grib Pipe: Petrology and Genetic Aspects

Keywords: peridotite, pyroxenite, eclogite, geothermometer,

geobarometer

FLA_0146

FR Boyd, KO Hoal, BG Hoal, DG Pearson, PH Nixon,

MJ Kingston

Garnet Lherzolites from Louwrencina, Namibia: Bulk Compositions and P/T Relations

Keywords: xenolith, kimberlite, Kaapvaal, lithosphere, craton, osmium, thermobarometry, geotherm

FLA_0283

LP Boyer, CT Hood, TE McCandless, DN Skelton, RD Tosdal

Volcanology of the Buffalo Hills Kimberlites, Alberta, Canada: Some Preliminary Observations

Keywords: crater, hypabyssal, facies, volcanoclastic, bedding, flow alignment, Cretaceous, magmaclast

FLA_0253

FE Brenker, T Stachel, JW Harris

TEM-Analysis of Inclusions in Diamonds from the Lower Mantle and Transition Zone (Kankan District, Guinea)

Keywords: olivine, fluid, dislocation, exsolution, deformation, clinopyroxene, garnet

FLA_0297

GP Brey, V Bulatov, A Gernis, J Harris, T Stachel

Ferropericlase - A Lower Mantle Phase in the Upper Mantle

Keywords: olivine, perovskite, Na, carbonatite, reduction, Kankan

FLA_0208

JA Brod, JC Gaspar, HS Diniz-Pinto, TC Junqueira-Brod

Spinel Chemistry as an Indicator of Crystal Fractionation and Liquid Immiscibility in the Tapira Alkaline-Carbonatite Complex, Minas Gerais, Brazil

Keywords: carbonatite, chromite, magnetite, bebedourite, kamafugite, APIP, phoscorite, nelsonite

FLA_0335

Authors

Abstract Title

File Name (.pdf)

JA Brod, TC Junqueira-Brod, JC Gaspar, SA Gibson,
RN Thompson
***Ti-Rich and Ti-Poor Garnet from the Tapira Carbonatite
Complex, SE Brazil: Fingerprinting Fractional
Crystallisation and Liquid Immiscibility***
Keywords: melanite, schorlomite, andradite, liquid immiscibility,
APIP, bebedourite, kamafugite, phlogopite picrite, crystallization
FLA_0339

S Buhre, HK Steinberg, GP Brey, SM Clark
***Trace Element Solubility and Reaction Kinetics in the
CAS-System***
Keywords: Ca-perovskite, Ca-walstromite, Ca-silicates,
diamonds, REE, in situ
FLA_0163

GP Bulanova, E Muchemwa, DG Pearson, BJ Griffin, S Kelly,
S Klemme, CB Smith
***Syngenetic Inclusions of Yimengite in Diamond from Sese
Kimberlite (Zimbabwe) - Evidence for Metasomatic
Conditions of Growth***
Keywords: alkali-titanate, chromite, Ar/Ar-dating,
metasomatism, upper mantle
FLA_0123

GP Bulanova, DG Pearson, EH Hauri, HJ Milledge,
YuP Barashkov
***Dynamics of Diamond Growth: Evidence from Isotope and
FTIR Trends***
Keywords: carbon, nitrogen, eclogite, peridotite, mantle
FLA_0125

R Burgess, D Harrison, E Hobson, JW Harris
***Noble Gas and Halogen Constraints on the Origin of
Volatile-Rich Fluids in Canadian Diamonds***
Keywords: diamond, mantle fluid, halogen, noble gases, Canada
FLA_0155

R Burgess, G Kiviets, JW Harris
***Different Age Populations of Eclogitic Diamonds in the
Venetia Kimberlite: Evidence from Ar-Ar Dating of
Syngenetic Clinopyroxene Inclusions***
Keywords: diamond, argon, age, dating, Africa
FLA_0162

D Bush, F Nel, C Revering, M Kirkley
***Geostatistical Methods Employed in Resource Evaluation of
the Snap Lake Diamond Deposit, NWT, Canada***
Keywords: estimation, kriging, simulation
FLA_0264

Authors

Abstract Title

File Name (.pdf)

D Canil
***Peridotites, Garnets and Trace Elements: A Telling Trilogy
about Mantle Lithosphere***
Keywords: peridotite, garnet, trace elements, lithosphere,
kimberlite
FLA_0131

MP Carlson, SB Treves
***Characterization and Geologic Setting of the Elk Creek
Carbonatite, Southeast Nebraska, USA***
Keywords: geophysics, gravity, magnetism, Kansas
FLA_0009

RW Carlson, AJ Irving, DJ Schulze, BC Hearn Jr.
***Timing of Lithospheric Mantle Modification Beneath the
Wyoming Craton***
Keywords: Wyoming Craton, peridotite xenoliths, isotopic
composition, elemental composition, age
FLA_0185

P Cartigny, T Stachel, J W Harris, M Javoy
***C- and N-Stable Isotope Characteristics of Diamonds from
Namibia***
Keywords: diamond, stable isotopes, carbon, nitrogen,
Namibia, alluvials
FLA_0122

DMDer Channer, A Egorov, FV Kaminsky
***Geological and Tectonic Setting of the Guaniamo Kimberlite
Sheets, South - West Venezuela***
Keywords: diamond, eclogitic, proterozoic, subduction
FLA_0157

JG Chapman, GL Boxer
***Size Distribution Analyses for Estimating Diamond Grade
and Value***
Keywords: diamonds, micro-diamonds, grade, size
distributions, frequencies, value
FLA_0274

IL Chinn, C Pienaar, CL Kelly
Diamond Growth Histories at Premier Mine
Keywords: cathodoluminescence, infra-red spectroscopy, Type
II diamonds, zonation
FLA_0159

NIJ Coe, AP le Roex, JJ Gurney
***The Petrology and Geochemistry of the Swartruggens and
Star Kimberlite Dyke Swarms, South Africa***
Keywords: Group II kimberlite, dike, petrography, trace
elements, major elements, dyke
FLA_0118

Authors

Abstract Title

File Name (.pdf)

HO Cookenboo

Extension of Ultradepleted Mantle within the Contwoyto Terrane of the Slave Craton, Northern Canada

Keywords: Snap Lake, Gahcho Kue, Diavik, Ekati, garnet, G10, chemistry

FLA_0202

SA Cooper, CM MacRae, NC Wilson, NVY Scarlett, WT Marx

Diamond Coatings that Affect Diamond Recoveries on Grease Tables Investigated by an Electron Microprobe

Keywords: cathodoluminescence, Perdevlei, Kareevlei Wes, orangeite, geochemistry, Barkley West

FLA_0210

B Corner

Geophysical Mapping of Major Structures of Southern Africa and an Assessment of Kimberlite Correlation

Keywords: geophysics, regional, structure, kimberlites, correlation, southern Africa

FLA_0245

VS Costa, JC Gaspar, MM Pimentel

Peridotite and Eclogite Xenoliths from the Juina Kimberlite Province, Brazil

Keywords: diamond, Sao Luiz, Amazon Craton, Sm-Nd, mineral chemistry, geothermometry

FLA_0336

N Coussaert, M Gregoire, JCC Mercier, DR Bell, D Demaiffe, AP Le Roex, L André

The Origin of Clinopyroxene in Cratonic Mantle

Keywords: metasomatism, Kaapvaal, MARID, PIC, garnet lherzolite

FLA_0383

N Coussaert, J-C-C Mercier, D Demaiffe, L Andre

Equilibrium conditions revisited for Lesotho kimberlites

Keywords: thermodynamic, thermobarometry, metasomatism, solvus orthopyroxene, inversion, lherzolite, harzburgite, CMS

FLA_0266

DC Crabtree, TF Morris, JA Ayer, RP Sage

The Identification of Lherzolitic Cr-Diopside in Kimberlites Exploration Programs: Examples from Indicator Mineral Surveys carried out in the Province of Ontario

Keywords: jadeite, kosmochlor, lamprophyre, Kapuskasing Structural Zone

FLA_0302

J Crawford, HH Helmstaedt

Comparative Study of Hypabyssal Kimberlite from Four Locations within the Slave Craton

Keywords: Finlay, Muskox, Rich, Jean, petrography, mineral chemistry, geochemistry

FLA_0128

Authors

Abstract Title

File Name (.pdf)

RA Creaser, H Grutter, J Carlson, B Crawford

Macrocrystal Phlogopite Rb-Sr Dates for the Ekati Property Kimberlites, Slave Province, Canada: Evidence for Multiple Intrusive Episodes in the Paleocene and Eocene

Keywords: geochronology, age dating, emplacement age, isotope

FLA_0204

SD Creighton, DR Eccles

A Preliminary Study of the Mineral Chemistry of Selected Alberta Kimberlites

Keywords: phlogopite, spinel, olivine, Buffalo Head Hills, Birch Mountains

FLA_0012

C Dalpe, DJ Ballantyne

Diamond Profiling: A New Approach for Forensic Application

Keywords: gem, data base, fingerprinting, LA-ICP-MS, RCMP

FLA_0348

LRM Daniels

The Genesis of Kimberlite Concentrate Xenocrystic Spinel

Keywords: Kaapvaal, magmatic, residue, subsolidus, TiO₂-rich, TiO₂-poor

FLA_0259

GR Davies, AJ Stolz, IL Mahotkin, GM Nowell, DG Pearson

Trace Element and Sr-Pb-Nd-Hf Isotope Evidence for Ancient Fluid-Related Enrichment in the Source Region of Aldan Shield Lamproites

Keywords: HFSE depletion, HFSE fractionation, Nd-Sr-Pb-Hf isotopes, metasomatism

FLA_0256

RM Davies, WL Griffin, SY O'Reilly, BJ Doyle

Geochemical Characteristics of Microdiamonds from Kimberlites at Lac de Gras, Central Slave Craton

Keywords: diamond, eclogitic, peridotitic, ultradeep, mineral inclusions, carbon isotopes, nitrogen aggregation states, nitrogen contents

FLA_0048

RM Davies, WL Griffin, SY O'Reilly, TE McCandless

Inclusions in Diamonds from the K10 and K14 Kimberlites, Buffalo Hills, Alberta, Canada: Diamond Growth in a Plume?

Keywords: diamond inclusions, eclogitic, peridotitic, ultradeep, carbon isotopes, nitrogen contents, nitrogen aggregation states

FLA_0049

JB Dawson

A Harzburgite to Garnet Lherzolite Transformation: The Possible Roles of Strain and Metasomatism

Keywords: olivine, enstatite, garnet, spinel, geochemistry, trace elements, peridotite

FLA_0013

Extended Abstract Index – continued



Authors

Abstract Title

File Name (.pdf)

I Dencker, P Nimis, A Zanetti, NV Sobolev

Major and Trace Elements Composition of Cr-Diopsides from the Zagadochnaya Kimberlite Pipe (Yakutia, Russia): Insights into Metasomatic Processes in the Yakutian Lithosphere

Keywords: diamond, Siberia, mantle, metasomatism

FLA_0234

DP Dowall, DG Pearson, GM Nowell, BA Kjarsgaard, J Armstrong, MSA Horstwood

Comparative Geochemistry of Kimberlites from the Lac de Gras Field, NWT - An Integrated Isotopic and Elemental Study

Keywords: Slave province, Hf isotopes, Nd isotopes, mantle array, transitional

FLA_0153

PM Doyle, JJ Gurney, A le Roex

Xenoliths from the Arnie, Misery and Pigeon Kimberlites, Ekati Mine, NWT, Canada

Keywords: major elements, trace elements, Ekati, mantle, geotherm, modeling, kimberlite, Slave

FLA_0090

D Dunn, D Smith, SC Bergman

Mantle Xenoliths from the Prairie Creek Lamproite Province, Arkansas, USA

Keywords: geotherm, depletion, lherzolite, tectonics, diamond

FLA_0119

D Dunn

Diamond Evaluation of the Prairie Creek Lamproite Province, Arkansas, USA

Keywords: grade, erosion, stratigraphy, eluvial, alluvial, mining

FLA_0380

DR Dyck, PA Oshust, JA Carlson, TE Nowicki, MP Mullins

Effective Resource Estimates for Primary Diamond Deposits from the Ekati Diamond Mine, Canada

Keywords: Lac de Gras, economic, kimberlite, volumetrics, density, geostatistics

FLA_0196

DR Eccles, LM Heaman, RW Luth, RA Creaser

Petrogenetic Considerations for the Late Cretaceous Northern Alberta Kimberlite Province

Keywords: volcanoclastic kimberlite, Mountain Lake, Buffalo Head Hills, Birch Mountains, petrogenesis

FLA_0041

J Ekkerd, J Stiefenhofer, M Field, P Lawless

The Geology of Finsch Mine, Northern Cape Province, South Africa

Keywords: Kaapvaal, Karoo, dike, mine plan, geology, dyke

FLA_0310

Authors

Abstract Title

File Name (.pdf)

EI Erlich, WD Hausel

Timing of Kimberlite Magmatism and Different Types of Diamond-bearing Complexes

Keywords: timing, kimberlites, lamproites, tectonics, astroblemes

FLA_0361

Y Fedortchouk, D Canil, JA Carlson

Oxygen Fugacity of Kimberlite Magmas and their Relationship to the Characteristics of Diamond Populations, Lac de Gras, N.W.T., Canada

Keywords: crystallization temperature, intensive variables, diamond morphology, resorption, etching, dissolution, diamond quality, redox regime, crystallisation

FLA_0098

MM Fenton, JG Pawlowicz, RC Paulen, GJ Prior, RA Olsen

Quaternary Geology of Northern Alberta: Implications for Kimberlite Exploration

Keywords: drift prospecting, Buffalo Head Hills, Birch Mountains, ice flow mapping, Mountain Lake, glacial sediments, bedrock topography, drift thickness

FLA_0365

SF Foley, AV Andronikov

The Genesis of Ultramafic Lamprophyres

Keywords: rifts, experiments, kimberlite, aillikite, alnoite, carbonatite

FLA_0236

SF Foley, S Buhre, DE Jacob, T Rehfeldt

Pyroxenite and Dunite Xenoliths as Metamorphosed Cumulates from the Archean Lower Ocean Crust

Keywords: subduction, eclogite, cratonic lithosphere, crustal formation

FLA_0235

D Francis

Implications of Major Element Composition for the Mantle Sources of Kimberlite, Aillikite, Olivine Lamproiite, and Meimechite

Keywords: diamond, carbonate, Fe, picrite, phlogopite

FLA_0248

J Ganga, A Rotman, S Nosiko

Pipe Catoca, an Example of the Weakly Eroded Kimberlites from North-East of Angola

Keywords: crater, diatreme, diamond, pyrope

FLA_0312

Authors

Abstract Title

File Name (.pdf)

BP Garden, RW Carlson, SB Shirey, JJ Gurney

RE-OS Systematics of Lithospheric Peridotites & Eclogites from the Bobbejaan & Bellsbank Dykes, Kaapvaal Craton, South Africa

Keywords: isotopes, xenoliths, Kimberley, Group II kimberlite, dikes

FLA_0147

JC Gaspar, ALN Araujo, RW Carlson, SE Sichel, JA Brod, PB Sgarbi, JCM Danni

Mantle Xenoliths and New Constraints on the Origin of Alkaline Ultrapotassic Rocks from the Alto Paranaíba and Goiás Igneous Provinces, Brazil

Keywords: mantle xenoliths, isotopic data, Alto Paranaíba Igneous Province, Goiás Alkaline Province, kamafugites, kimberlites, Brazil

FLA_0337

A Gurnis, HS Grutter

Thermobarometry of Mantle Peridotites: Calibration Based on Experimental and Natural Data

Keywords: pressure, temperature, thermodynamic models, 5-phase peridotite, xenolith

FLA_0250

J Glinnemann, K Kusaka, J Harris, B Bleisteiner, B Winkler

Oriented Graphite Single-Crystal Inclusions in Diamond

Keywords: optical microscopy, X-ray diffraction, Micro-Raman spectroscopy, mutual orientation, coincidence site lattice, remnant pressures, crystallography

FLA_0354

AV Golovin, VV Sharygin, NP Pokhilenko, VG Mal'kovets, NV Sobolev

Secondary Melt Inclusions in Olivine from Unaltered Kimberlites of the Udachnaya-Eastern Pipe, Yakutia

Keywords: Raman, EPMA, alkaline, carbonatite, phlogopite, chlorides, sulphates, Palabora

FLA_0226

AM Gonzales, M Baumgartner, K Gelo

The Ranch Lake Indicator Mineral Train: Single or Multiple Sources?

Keywords: Slave, dispersion, kimberlite, till, abundance, kelyphite

FLA_0198

S Graham, DD Lambert, SR Shee

Geochemical and Isotopic Evidence of a Kimberlite-Melnoite-Carbonatite Genetic Link

Keywords: melnoite, kimberlite, carbonatite, Re-Os, Sm-Nd, Yilgarn, Australia, isotopes

FLA_0130

Authors

Abstract Title

File Name (.pdf)

WL Griffin, SY O'Reilly, BJ Doyle, Kevin Kivi, HG Coopersmith

Lithospheric Mapping Beneath the North American Plate

Keywords: lithosphere structure, North America cratons, Archean mantle roots, lithosphere evolution, Michigan mantle section, Slave craton, North America mantle domains, mantle seismic velocity

FLA_0070

HS Grutter, AH Menzies

Mutually Consistent Classification Schemes for Mantle-Derived Garnet and Chromite, for use by Diamond Explorers

Keywords: mineralogy, petrology, peridotite, eclogite, websterite, graphite, G10, G9

FLA_0385

HS Grutter, RO Moore

Pyroxene Geotherms Revisited - An Empirical Approach Based on Canadian Xenoliths

Keywords: thermobarometry, garnet peridotite, Somerset Island, Kirkland Lake, Slave craton, North Lesotho, Gibeon, Kimberley

FLA_0272

GH Gudfinnsson, DC Presnall

Continuous Gradations among Primary Kimberlitic, Carbonatitic, Melilititic, and Komatiitic Melts in Equilibrium with Garnet Lherzolite at 3-8 Gpa

Keywords: kimberlite, carbonatite, melilitite, melting experiments, melt generation, CO₂, multi-anvil

FLA_0249

JJ Gurney, P Hildebrand, J Carlson, D Dyck, Y Fedortchouk

Diamonds from the Ekati Core and Buffer Zone Properties

Keywords: components, characteristics, morphology, colour, growth, resorption, color

FLA_0035

JJ Gurney, KJ Westerlund, RW Carlson, SB Shirey

Mineral Compositions and RE-OS Isotope Systematics of Harzburgitic Nodules from the Panda Kimberlite, Slave Craton

Keywords: lithosphere, melt-depletion, CSBC, Archean

FLA_0138

JL Gurney, M Baumgartner, E Ankar, JJ Gurney, TE Nowicki,

HS Grutter, M Coetzee, N Mason-Jones

Kimberlite Almanac

Keywords: mineral chemistry, petrography, diamonds, Finsch

FLA_0316

Authors

Abstract Title

File Name (.pdf)

SE Haggerty

India: Geological Setting and Chemistry of Kimberlite Clan Rocks in the Dharwar Craton

Keywords: India, Dharwar Craton, kimberlite clan rocks, Proterozoic, Rodinia, geochemistry, famous diamonds

FLA_0029

AP Hamblin, LD Stasiuk, AR Sweet, GD Lockhart, DR Dyck, K Jagger, LR Snowdon

Post-Kimberlite Eocene Strata Within a Crater Basin, Lac de Gras, Northwest Territories, Canada

Keywords: sedimentology, organic petrology, palynology, rock eval, thermal maturity, peat, oil shale, vitrinite reflectance

FLA_0057

MA Hamilton, NV Sobolev, RA Stern, DG Pearson

SHRIMP U-Pb Dating of a Perovskite Inclusion in Diamond: Evidence for a Syneruption Age for Diamond Formation, Sytykanskaya Kimberlite Pipe, Yakutia Region, Siberia

Keywords: geochronology, Alakit, ion microprobe, diamond growth, Schryburt Lake, syngenetic, peridotitic, 206Pb/238U

FLA_0388

PTC Hammer, K Ramachandran, RM Clowes

Seismic Reflection Imaging of Thin, Kimberlite Dykes and Sills: Exploration and Deposit Characterization of the Snap Lake Dyke, Canada

Keywords: seismic, reflection, resolution, detection, feathering, drill, dike

FLA_0058

M Hanrahan, T Stachel, GP Brey, Y Lahaye

Garnet Peridotite Xenoliths from the Koffiefontein Mine, South Africa

Keywords: lherzolite, garnet, clinopyroxene, geotherm, sheared peridotites, REE

FLA_0369

GE Harlow, R Davies

Status Report on Stability of K-Rich Phases at Upper-Mantle Conditions

Keywords: experimental, clinopyroxene, phase-X, K-richterite, K-cymrite, phlogopite, K-hollandite, phengite

FLA_0295

SE Harvey, BA Kjarsgaard, LI Kelley

Kimberlites of Central Saskatchewan: Complication and Significance of Indicator Mineral Geochemistry with Respect to Diamond Potential

Keywords: indicator, indicator minerals, Saskatchewan, Fort a la Corne, geochemistry

FLA_0193

Authors

Abstract Title

File Name (.pdf)

PC Hayman, MG Kopylova, FV Kaminsky

Alluvial Diamonds from the Rio Soriso (Juina, Brazil)

Keywords: diamond, morphology, nitrogen, cathodo-luminescence, fluorescence, Juina, Brazil, nitrogen aggregation

FLA_0320

JW Head, L Wilson

Diatremes and Kimberlites 1: Definition, Geological Characteristics and Associations

Keywords: dikes, sill, root zone, carbon dioxide, xenoliths, peridotite, dykes

FLA_0287

LM Heaman, RA Creaser, HO Cookenboo, T Chacko

Multi-Stage Modification of the Mantle Lithosphere Beneath the Slave Craton: Evidence from an Unusual Suite of Zircon-Bearing Eclogite Xenoliths entrained in the Jericho Kimberlite, Canada

Keywords: Jericho kimberlite, eclogite xenolith, geochronology, Slave lithosphere, metasomatism

FLA_0100

LM Heaman, BA Kjarsgaard

The Temporal Evolution of North American Kimberlite

Keywords: geochronology, kimberlite genesis, emplacement patterns, tectonic processes

FLA_0099

BC Hearn Jr.

Upper-Mantle Xenoliths in the Homestead Kimberlite, Central Montana, USA: Depleted and Re-Enriched Wyoming Craton Samples

Keywords: garnet, spinel, phlogopite, clinopyroxene, ilmenite, thermobarometry, olivine, xenocryst

FLA_0126

AJ Hell, WRH Ramsay, G Rheinberger, S Pooley

The Geology, Age, Near Surface Features and Mineralogy of the Merlin Kimberlites, Northern Territory, Australia

Keywords: diatreme facies, textural phases, emplacement, infill sediments, subsidence, diamond potential

FLA_0273

A Henning, G Kiviets, S Kurszlaukis, E Barton, F Mayaga-Mikolo

Early Proterozoic Metamorphosed Kimberlites from Gabon

Keywords: Mitic, meta-kimberlite, Congo Craton, Ayolo, Amie, Archean, Ar/Ar, U-Pb dating

FLA_0066

CM Hetman, BH Scott Smith, JL Paul, FW Winter

Geology of the Gahcho Kue Kimberlite Pipes, NWT, Canada: Root to Diatreme Transition Zones

Keywords: 5034, Hearne, Tuzo, Tesla, tuffisitic, hypabyssal, magmatic, fluidisation, fluidization, textures, emplacement

FLA_0352

Authors	Abstract Title	File Name (.pdf)
SL Hodder	<i>Petrography and Mineral Chemistry of the McLean Kimberlite, Lake Timiskaming, Ontario</i>	
Keywords: Canada, aphanitic, mineralogy		
	FLA_0170	
HE Hoefler, GP Brey, AB Woodland	<i>Iron Oxidation State of Mantle Minerals Determined from L Emission Spectra by the Electron Microprobe</i>	
Keywords: speciation, EPMA, garnet, pyroxene, ferric iron, X-ray spectroscopy, valency, Fe ³⁺		
	FLA_0173	
CT Hood, TE McCandless	<i>Systematic Variations in Xenocryst Mineral Composition at the Province Scale, Buffalo Hills Kimberlites, Alberta, Canada</i>	
Keywords: pyrope, chromite, ilmenite, proterozoic, thermobarometry, indicators, diamond, lherzolite		
	FLA_0199	
MT Hutchison, PH Nixon, SL Harley	<i>Corundum Inclusions in Diamonds - Discriminatory Criteria and a Corundum Compositional Database</i>	
Keywords: Sao Luiz, Juina, Brazil, ruby, sapphire, nickel, prospectivity, granulite		
	FLA_0069	
AJ Irving, SM Kuehner, PC Ellsworth	<i>Petrology and Thermobarometry of Mantle Xenoliths from the Eocene Homestead Kimberlite Pipe, Central Montana, USA</i>	
Keywords: garnet, peridotite, dunite, Grassrange, Wyoming craton, lithosphere		
	FLA_0050	
TJ Ivanič, B Harte, SR Burgess, JJ Gurney	<i>Factors in the Formation of Sinuous and Humped REE Patterns in Garnets from Mantle Harzburgite Assemblages</i>	
Keywords: Jagersfontein, fractional crystallisation, disequilibrium, megacryst melt, percolation, diffusion, rare earth elements, equilibrium, crystallisation		
	FLA_0078	
ES Izraeli, JW Harris, O Navon	<i>Mineral Micro-Inclusions in Cloudy Diamonds from Koffiefontein, South Africa</i>	
Keywords: carbonatitic, melt, fluid, peridotitic, eclogitic, mica		
	FLA_0113	
DE Jacob	<i>Origin and Genesis of Eclogites from the Earth's Mantle</i>	
Keywords: review, ocean crust, cumulates, geochemistry, trace elements, isotopes		
	FLA_0238	

Authors	Abstract Title	File Name (.pdf)
DE Jacob, A Fung, E Jagoutz, DG Pearson	<i>Petrology and Geochemistry of Eclogite Xenoliths from the Ekati Kimberlites Area</i>	
Keywords: eclogites, trace elements, Canada, isotopes		
	FLA_0239	
E Jagoutz, R. Jotter	<i>On the Search for Neodymium-142 in Terrestrial Rocks</i>	
Keywords: 142 Neodymium, primary differentiation, primitive earth, primitive lithosphere, extinct isotopes, SNC meteorites, cratonic lithosphere, cratonic mantle		
	FLA_0081	
J Jakubec	<i>Role of Geology in Project development</i>	
Keywords: diamond mine, geotechnics, kimberlite, contact zones		
	FLA_0362	
J Jakubec, L Long, T Nowicki, D Dyck	<i>Underground Geotechnical and Geological Investigation at the Ekati Mine - Koala North Case Study</i>	
Keywords: diamond mine, geotechnics, kimberlite, mudstones		
	FLA_0363	
PE Janney, AP le Roex, RW Carlson, DR Bell	<i>Os and Hf Isotopic Constraints on the Origins of Olivine Melilitites from Western South Africa</i>	
Keywords: melilitite, kimberlite, Osmium, Hafnium, South Africa		
	FLA_0127	
AL Jaques, PR Milligan	<i>Patterns and Controls on the Distribution of Diamond Pipes in Australia</i>	
Keywords: exploration, geophysics, kimberlite, lamproite, potential field, gravity, lithosphere, structure		
	FLA_0132	
SM Jensen, K Secher, TM Rasmussen, T Tukiainen, JD Krebs, F Schjøth	<i>Distribution and Magnetic Signatures of Kimberlitic Rocks in the Sarfartoq Region, Southern West Greenland</i>	
Keywords: dykes, dikes, occurrences, geophysics, hyperspectral		
	FLA_0140	
LH Johnson, D Phillips	<i>⁴⁰Ar/³⁹Ar Dating of Mantle Metasomatism: A Noble Approach or All Hot Air?</i>	
Keywords: geochronology, age dating, kimberlite, phlogopite, peridotite, lithosphere, argon		
	FLA_0062	

Authors
Abstract Title **File Name (.pdf)**

AG Jones, JA Craven
Area Selection for Diamond Exploration using Deep-Probing Electromagnetic Surveying
Keywords: Archean, slave, Western Superior, Canada, magnetotelluric
FLA_0278

AP Jones, AD Beard, HJ Milledge, G Cressey, C Kirk, P DeCarli
New Nitride Mineral in Carbonado Diamond
Keywords: nitride, carbonado, Ti₃CuN, CuTiN₂, Cu₃N, diamond, osbornite, nitrogen
FLA_0167

TC Junqueira-Brod, JA Brod, JC Gaspar, ESR Barbosa
Magma-Sediments Interactions in the Aguas Emendadas Kamafugitic Diatremes, Goiás Alkaline Province, Brazil
Keywords: peperite, kamafugite, Goiás Alkaline Province, Brazil, pyroclastic rocks, diatreme
FLA_0334

TC Junqueira-Brod, JC Gaspar, JA Brod, ESR Barbosa
Magma Mixing in Cretaceous Kamafugites, Goiás Alkaline Province, Brazil
Keywords: Aguas Emendadas, kamafugite, melaleucitite, Goiás Alkaline Province, magma mingling, magma mixing, pyroclastic rocks, diatreme
FLA_0338

FV Kaminsky, SM Sablukov, LI Sablukova, DMDer Channer
Late Proterozoic Kimberlites of Guaniamo, Venezuela: Anomalous, Ilmenite-Free, Mica Kimberlites of 'Isotopic Transitional' Type
Keywords: subvolcanic sheets, Nd-Sr, Lomonosov
FLA_0001

FV Kaminsky, SM Sablukov, LI Sablukova
Diamondiferous Archaean Lamprophyres with Komatiitic Affinities from the Wawa Area, Ontario, Canada
Keywords: dyke, dike, Sandor, breccia
FLA_0391

E Kappus, EY Anthony, C Andronicos
Characterization of the Continental Mantle in an Active Rift Zone: Kilbourne Hole, New Mexico
Keywords: fertile lherzolite, protogranular, fine-grained equigranular tabular, porphyroclastic, geothermometry
FLA_0192

RL Kellett, R Zahynacz, G Steensma
The Role of Borehole Geophysics in Improving the Geophysical Imaging of Kimberlites in a Sedimentary Setting: Alberta, Canada
Keywords: Mountain Lake Intrusion, seismic, electromagnetics, gravity, magnetic, resistivity
FLA_0015

Authors
Abstract Title **File Name (.pdf)**

GK Khachatryan, FV Kaminsky
A Correlation between the Distribution of Nitrogen Centers in Diamonds and their Internal Structure and Mechanism of Growth
Keywords: FTIR, A-centre, B-centre, sectorial, A-center, B-center
FLA_0002

BA Kjarsgaard
Behaviour of Kimberlite Magma in the Upper Crust and at Surface
Keywords: volatiles, paleo environment, carbon dioxide, water
FLA_0294

IM Kjarsgaard, MB McClenaghan, BA Kjarsgaard, L Heaman
Mineralogy of Kimberlite Boulders from Eskers in the Kirkland Lake and Lake Timiskaming Areas, North-eastern Ontario, Canada
Keywords: Mg-ilmenite, garnet, U/Pb age, glacial transport
FLA_0292

O Klein-BenDavid, ES Izraeli, O Navon
Volatile-Rich Brine and Melt in Canadian Diamonds
Keywords: fibrous, micro-inclusions, Diavik, carbonatitic
FLA_0109

O Klein-BenDavid, AM Logvinova, ES Izraeli, NV Sobolev, O Navon
Sulfide Melt Inclusions in Yubileynaya (Yakutia) Diamonds
Keywords: Carbonatite, Siberia, micro-inclusions, fibrous, octahedral, sulphide
FLA_0111

S Klemme
The Garnet-Spinel Transition in Refractory Mantle Compositions
Keywords: garnet, spinel, knorringite, experimental petrology
FLA_0055

M Kolebaba
Deep Infill Crater Model for Lac de Grass Kimberlites: Implications for Diamond Distribution
Keywords: crater, kimberlite emplacement, epiclastic kimberlite, mass flow, volcanoclastic kimberlite
FLA_0340

MR Kolebaba, GH Read, BH Kahlert, D Kelsch
Diamondiferous Kimberlites on Victoria Island, Canada: A Northern Extension of the Slave Craton
Keywords: Victoria Island, websterite, eclogite, peridotite, geotherm, Slave Craton, thermobarometry, Galaxy Kimberlite trend
FLA_0308

Extended Abstract Index – continued



Authors
Abstract Title **File Name (.pdf)**

MG Kopylova
Two Distinct Origins of the Northern Slave Eclogites
Keywords: Slave craton, eclogite, REE, eclogite fabric, low-P mafic cumulate, mafic intrusive, metasomatism
FLA_0194

MG Kopylova, C McCammon
Composition and the Redox State of the Slave Peridotitic Mantle
Keywords: Slave craton, thermal state, mantle terrane, bulk composition, peridotite, oxygen fugacity, chemical stratification, mantle xenolith
FLA_0195

SI Kostrovitsky, EM Verichev, VK Garanin, LV Suvorova, IV Aschepkov, V Malkovets, WL Griffin
Megacrysts from Griba Kimberlite Pipe (Arkhangelsk Province)
Keywords: high-Cr paragenesis, ilmenite, garnet, clinopyroxene
FLA_0074

SI Kostrovitsky, NV Alymova, AS Ivanov, VP Serov
Structure of the Daldyn Field (Yakutian Province) Based on the Study of Picroilmenite Composition
Keywords: taxon, pipe, cluster of pipes, magma chamber
FLA_0207

Y Kozai, M Arima
Diamond Dissolution in Kimberlite and Lamproite Melts at Deep Crustal Conditions
Keywords: diamond, dissolution, kimberlite, lamproite, morphology
FLA_0358

IN Kryvoshlyk
Garnet and Ilmenite Geochemical Computer Programs for Exploration for Diamonds
Keywords: garnet, ilmenite, chemical composition, diamond, exploration
FLA_0023

SM Kuehner, AJ Irving, HE O'Brien
A Kalborsite-Pitiglianoite-Kalsilite-Shcherbakovite-Barytolamprophyllite-Wadeite-Bearing Lamproitic Dike from the Northern Highwood Mountains, Montana, USA
Keywords: pseudoleucite, orangeite, perpotassic, potassium richterite, sodalite, tetraferriphlogopite, dyke
FLA_0047

Authors
Abstract Title **File Name (.pdf)**

SS Kuligin, VG Malkovets, NP Pokhilenko, MA Vavilov, WL Griffin, SY O'Reilly
Mineralogical and Geochemical Characteristics of a Unique Mantle Xenolith from the Udachnaya Kimberlite Pipe
Keywords: mineral, geochemistry, garnet, REE, rare earth elements
FLA_0114

S Kurszlaukis, W Barnett
Volcanological and Structural Aspects of the Venetia Kimberlite Cluster
Keywords: volcanology, TKB, pyroclastic, emplacement, phreatomagmatism, structure, control, pipe
FLA_0063

Y Lahaye, GP Brey
Scale and Timing Constraints of Chemical Redistribution between Minerals of a Composite Garnet Peridotite/Orthopyroxenite
Keywords: xenolith, trace elements, exsolution, laser ablation
FLA_0186

AP le Roex, DR Bell, P Davis
Petrogenesis of Kimberley Group I Hypabyssal Kimberlites: Evidence from Bulk Rock Geochemistry
Keywords: lithosphere, magma, South Africa, plume
FLA_0097

J Ledo, AG Jones, JA Craven
Electrical Parameter Maps of Canada
Keywords: Canada, resistivity, magnetotellurics, anisotropy, lithosphere
FLA_0280

DC Lee, J Maddren, BJ Griffin
The Importance of Chromite Morphology in Diamond Exploration
Keywords: plastic deformation, weathering, surface features, chemistry, resorption, elongation, kimberlite, lamproite
FLA_0315

NS Lefebvre, MG Kopylova, KR Kivi, RL Barnett
Diamondiferous Volcaniclastic Debris Flows of Wawa, Ontario, Canada
Keywords: diamonds, calc-alkaline lamprophyre, upper greenschist facies metamorphism, Superior craton, Michipicoten greenstone belt, oscillatory zoning, Archean
FLA_0298

ML Lehtonen, JS Marmo
Glacial Dispersion Study of Kimberlitic Material in Quaternary Till from the Lahtojoki Pipe, Eastern Finland
Keywords: diamond exploration, indicator mineral, geochemistry, Karelian Craton
FLA_0024

Authors

Abstract Title

File Name (.pdf)

ML Lehtonen, HE OBrien, P Peltonen, BS Johanson,
LK Pakkanen
***Layered Mantle at the Edge of the Karelian Craton: P-T of
Mantle Xenocrysts and Xenoliths from Eastern Finland
Kimberlites***

Keywords: Fennoscandia, lithosphere, thermobarometry,
diamond

FLA_0260

NG Lensky, RW Niebo, JR Holloway, V Lyakhovsky, O Navon
***Bubble Nucleation as a Trigger for Xenolith Entrapment in
Mantle Melts***

Keywords: magma, volatiles, dike, kimberlite, dyke

FLA_0108

I Leost, T Stachel, GP Brey, JW Harris

An Unusual Suite of Inclusions in Diamonds from Namibia

Keywords: pyroxenes, intergrowths, exsolution, carbonates,
barometry, thermometry, metasomatism

FLA_0176

JPJ Letendre, M L'Heureux, TE Nowicki, R Creaser

The Wemindji Kimberlites: Exploration and Geology

Keywords: age, Canada, Quebec, indicator minerals, sill

FLA_0311

KD Litasov, YD Litasov, VG Malkovets, H. Taniguchi
***Lithosphere Structure and Thermal Regime of the Upper
Mantle Beneath the Baikal Region: Evidence from Deep-
Seated Xenoliths***

Keywords: mantle, xenolith, geotherm, peridotite, pyroxenite,
lithosphere, Baikal

FLA_0030

KD Litasov, E Ohtani

Hydrous Lower Mantle: The Water Source for Wet Plumes

Keywords: mantle, perovskite, ferropericlaase, water

FLA_0031

GD Lockhart, H Grutter, JA Carlson

***Temporal and Geomagnetic Relationship of Ekati Economic
Kimberlites***

Keywords: Lac de Gras, Slave, Rb-Sr, U-Pb, model ages

FLA_0284

AM Logvinova, O Klein-BenDavid, ES Israeli, O Navon,
NV Sobolev

***Microinclusions in Fibrous Diamonds from Yubileynaya
Kimberlite Pipe (Yakutia)***

Keywords: high pressure, upper mantle, sulfides, spectroscopy,
fluid, carbonatitic melt, sulphide

FLA_0025

Authors

Abstract Title

File Name (.pdf)

V Lorenz, S Kurszlaukis

***Kimberlite Pipes: Growth Models and Resulting
Implications for Diamond Exploration***

Keywords: maars, diatremes, root zones, emplacement, target,
strategy, model, phreatomagmatism

FLA_0036

IL Mahotkin, H Downes, E Hegner, AD Beard

***Devonian Dike Swarms of Alkaline, Carbonatitic and
Primitive Magma-Type Rocks from the South Kola
Peninsula: Geochemical and Isotopic Constraints on
Plume-Lithospheric Interaction***

Keywords: melilitite, alnoite, picrite, kimberlite, aillikite,
Kandalaksha, dike, damkjernite, dyke

FLA_0346

IL Mahotkin, J Robey, S Kurszlaukis, EP Valuev, NF Pylaev

***Pipe Emplacement Model of the Lomonosov Diamond
Deposit, Arkhangelsk Region, NW Russia***

Keywords: kimberlite, diatreme, maar, crater, pyroclastic,
tuffisitic, volcano, Karpinskiy

FLA_0242

D Mainkar, B Lehmann, SE Haggerty

***Discovery of the Very Large Crater-Facies Kimberlite
System of Tokapal, Bastar District, Chhattisgarh, India***

Keywords: MKF, TKF, Bastar craton, lapilli tuff, Feeder, Tuff
(ash) Beds, volcanic breccia

FLA_0068

VG Malkovets, LA Taylor, W Griffin, S O'Reilly, N Pearson,
NP Pokhilenko, EM Verichev, NN Golovin, KD Litasov

***Cratonic Conditions Beneath Arkhangelsk, Russia: Garnet
Peridotites from the Grib Kimberlite***

Keywords: garnets peridotite, cratonic mantle, Arkhangelsk,
Re/Os dating

FLA_0220

VG Malkovets, LA Taylor, W Griffin, S O'Reilly, NP Pokhilenko,
EM Verichev, NN Golovin, KD Litasov, JW Valley, M Spicuzza

Eclogites from the Grib Kimberlite Pipe, Arkhangelsk, Russia

Keywords: eclogites, Arkhangelsk, oxygen isotopes, kimberlite

FLA_0222

EV Malygina, NP Pokhilenko, NV Sobolev

***Coarse Peridotite Xenoliths of Udachnaya Kimberlite Pipe,
Yakutia: Garnetization of Peridotites of the Central Siberian
Platform Lithospheric Mantle***

Keywords: garnet, lherzolite, spinel, harzburgite, garnetisation

FLA_0191

Authors

Abstract Title

File Name (.pdf)

KM Masun, BJ Doyle, SA Ball, S Walker

The Geology and Mineralogy of the Anuri Kimberlite, Nunavut, Canada

Keywords: Slave, petrography, Napaktulik, emplacement

FLA_0246

D McBean, M Kirkley, C Revering

Structural Controls on the Morphology of the Snap Lake Kimberlite Dyke

Keywords: emplacement, Slave, craton, Northwest Territories, Canada, tectonics, Archean, extensional, dike

FLA_0258

CA McCammon, MG Kopylova

Mantle Oxygen Fugacity and Diamond Formation

Keywords: redox, Mossbauer spectroscopy, carbon isotopes, Slave craton, garnet peridotite, fluids

FLA_0262

MB McClenaghan, IM Kjarsgaard, BA Kjarsgaard, PA Sobie
Application of Surficial Exploration Methods in the Lake Timiskaming Kimberlite Field, Canada

Keywords: till, glaciated terrain, indicator minerals, till geochemistry, drift prospecting

FLA_0301

RE McElroy, TE Nowicki, DR Dyck, JA Carlson, JK Todd,
SP Roebuck, B Crawford, S Harrison

The Geology of the Panda Kimberlite, Ekati Diamond Mine, Canada

Keywords: Lac de Gras, E174Contwoyto, Northwest Territories

FLA_0197

N McKenna, JJ Gurney, JM Davidson

A Study of Diamonds, Diamond Inclusion Minerals and Other Mantle Minerals from the Swartruggens Kimberlite Dyke Swarm, South Africa

Keywords: macrocrysts, megacrysts, eclogite inclusions, majorite, Type Ib, Group II kimberlite, peridotitic inclusions, websterite inclusions, dike

FLA_0054

B McMonnies, J L Ward

Beyond Single-Sensor Magnetic Surveying. The Past, Present and Future of Airborne Magnetic Acquisition for Kimberlite Exploration

Keywords: airborne, geophysics, gradient

FLA_0268

S Mdludlu, MB Mabuza, KM Tainton, RJ Sweeney, C Skinner
A Clinopyroxene Thermobarometry Traverse Across Coromandel Area, Brasil

Keywords: mantle, craton, geotherm, thermometry, nickel, garnet, adiabat

FLA_0282

Authors

Abstract Title

File Name (.pdf)

AH Menzies, M Frazenburg, MC Baumgartner, JJ Gurney,
RO Moore

Evaluation of Chromites Derived from Kimberlites and Implications for Diamond Exploration Programs

Keywords: metasomatism, alteration, zonation, secondary electron imaging, backscatter electron imaging, elemental maps, mantle

FLA_0374

AH Menzies, K Westerlund, JJ Gurney, J Carlson, A Fung,
T Nowicki

Peridotitic Mantle Xenoliths from Kimberlites on the Ekati Diamond Mine Property, NWT, Canada

Keywords: Slave Craton, lithosphere, geothermobarometry, paleogeotherm, Panda, diamond stability field

FLA_0305

RH Mitchell

Experimental Studies at 6 - 12 GPa of the Ondermatje Hypabyssal Kimberlite

Keywords: experimental petrology, spinel, ilmenite, clinopyroxene

FLA_0020

RH Mitchell, J Letendre

Mineralogy and Petrology of Kimberlite from Wemindji, Quebec

Keywords: kimberlite, sills, flow differentiation, macrocrysts, spinel, ilmenite, mica

FLA_0164

TS Mogg, MG Kopylova, BH Scott Smith, MB Kirkley

Petrology of the Snap Lake Kimberlite, NWT, Canada

Keywords: dyke, dike, hypabyssal, breccia, diamond, sheet, phlogopite

FLA_0067

J Moorhead, M Beaumier, R Girard, L Heaman

Distribution, Structural Controls and Ages of Kimberlite Fields in the Superior Province of Quebec

Keywords: kimberlite field, spacing, superior craton, age dates, lineaments, tectonic zones, rift basins

FLA_0275

T Morikiyo, SI Kostrovitsky, MWK Weerakoon, T Miyazaki,
NV Vladykin, H Kagami, K Shuto

SR and ND Isotopic Difference Between Kimberlites and Carbonatites from Siberia

Keywords: kimberlite-carbonatite relationship, depleted mantle, Siberian Platform, subcontinental mantle

FLA_0051

Authors

Abstract Title

File Name (.pdf)

J Mustafa, TE Nowicki, P Oshust, D Dyck, B Crawford,
S Harrison
The Geology of the Misery Kimberlite, Ekati Diamond Mine, Canada
Keywords: Slave, Northwest, Lac de Gras, Contwoyto
FLA_0370

P Naidoo, J Stiefenhofer, M Field, R Dobbe
Recent Advances in the Geology of Koffiefontein Mine, Free State Province, South Africa
Keywords: kimberlite, underground, spinel, emplacement
FLA_0313

O Navon, ES Izraeli, O Klein-BenDavid
Fluid Inclusions in Diamonds - The Carbonatitic Connection
Keywords: brine, hydrous-silicic, micro-inclusions, melt
FLA_0107

A Nikiforova, AV Bobrov, VZ Spetsius
Garnet-Clinopyroxene Assemblage of Mantle Rocks from the Obnazhennaya Kimberlite Pipe (Yakutia)
Keywords: eclogites, mantle, thermobarometry, pyroxenites
FLA_0149

GM Nowell, DG Pearson, DJ Jacob, ZV Spetsius, PH Nixon,
SE Haggerty
The Origin of Alkremites and Related Rocks: A LU-HF, RB-SR and SM-ND Isotope Study
Keywords: garnet, spinel, eclogite, corganite, corgaspinite
FLA_0271

TE Nowicki, B Crawford, D Dyck, J Carlson, R McElroy,
H Helmstaedt, P Oshust
A Review of the Geology of Kimberlite Pipes of the Ekati Property, Northwest Territories, Canada
Keywords: Lac de Gras, Slave, volcanology, pipe emplacement
FLA_0201

HE O'Brien, ML Lehtonen, RG Spencer, AC Birnie
Lithospheric Mantle in Eastern Finland: A 250 Km 3D Transect
Keywords: Fennoscandia, kimberlite, xenocryst, Karelian craton, diamond exploration
FLA_0261

SY O'Reilly, WL Griffin
Taking the Pulse of the Earth: Lithosphere Events Tracked by in-situ Geochronology
Keywords: mantle Re-Os ages, mantle sulfide, Kaapvaal craton, lithosphere formation, mantle evolution, mantle geophysics, lithosphere assembly, sulphide
FLA_0042

Authors

Abstract Title

File Name (.pdf)

DG Pearson, GM Nowell, DP Dowall, BA Kjarsgaard,
MG Kopylova, JA Armstrong
The Relative Roles of Lithosphere and Convecting Mantle in Kimberlites from the Slave Province NWT: Constraints from RE-OS Isotopes and Olivine Population Studies
Keywords: lamproites, Re-Os, potassic rocks, Hf isotopes
FLA_0269

NJ Pearson, WL Griffin, SY O'Reilly, G Delpech
Magnesium Isotopic Composition of Olivine from the Lithospheric Mantle
Keywords: laser ablation, metasomatism, peridotite, Slave Craton, Kaapvaal Craton, Kerguelen Islands, South-eastern Australia
FLA_0129

JA Pell, OJ Ijewliw
Kimberlites, Melnoites and Look-Alikes in British Columbia, Canada
Keywords: ultramafic lamprophyre, alkaline lamprophyre, alkali basalt, ultrapotassic, pre-orogenic, aillikite
FLA_0200

P Peltonen
Platinum-Group Element Geochemistry of Eastern Finland Kimberlites and their Mantle Sample
Keywords: melt, xenolith, PGE, mantle, diamond, sulphides, Finland, Fennoscandia, sulfide
FLA_0052

BS Petrie, P Sheahan
The Sheahan-MDRU Diamond & Mantle Rock Literature Service
Keywords: library, internet, historical, technical literature
FLA_0008

D Phillips, JW Harris
The Effect of Differential Mineral Compressibility on Diamond Inclusion Thermobarometry
Keywords: mantle, geothermobarometry, garnet, pyroxene, temperature, pressure, kimberlite
FLA_0061

L Pizzolato, DJ Schulze
Geochemistry of Peridotites and Eclogites from the Kelsey Lake Kimberlite, Colorado-Wyoming, USA
Keywords: Kelsey Lake, kimberlite, eclogite, peridotite
FLA_0300

LN Pokhilenko, AA Tomilenko, SS Kuligin, VV Khlestov
The Upper Mantle Heterogeneity: Thermodynamic Calculations and Methods of Mathematical Statistics
Keywords: chromatography, fluid, xenolith, oxygen fugacity
FLA_0007

Authors

Abstract Title

File Name (.pdf)

NP Pokilenko, AM Agashev, JA McDonald, NV Sobolev, SI Mityukhin, E Takazawa, MA Vavilov, YT Yanygin
Kimberlites of the Nakyn Field, Siberia, and the Snap Lake/King Lake Dyke System, Slave Craton, Canada: A New Variety of Kimberlite with a Proposed Ultradeep Origin
Keywords: carbonatite, lithosphere, mantle, majorite, Russia, dike
FLA_0172

NP Pokhilenko, WL Griffin, N Shimizu, RC McLean, VG Malkovets, LN Pokhilenko, EV Malygina
Pyropes and Chromites of the Snap Lake/King Lake Kimberlite Dyke System in Relation to the Problem of the Southern Slave Craton Lithospheric Mantle Structure and Composition

Keywords: Lithosphere, LREE, subcalic, depleted, asthenosphere, metasomatism, dike

FLA_0171

NP Pokhilenko, JA McDonald, NV Sobolev, VN Reutsky, AE Hall, AM Logvinova, LF Reimers
Crystalline Inclusions and C-Isotope Ratios in Diamonds from the Snap Lake/King Lake Kimberlite Dyke System: Evidence of an Ultradeep and Enriched Lithospheric Mantle
Keywords: majorite, chromite, lithosphere, Slave, olivine, dike
FLA_0175

NP Pokhilenko, JA McDonald, MA Vavilov, AM Agashev, DB Clarke, K-J Wright
Kimberlites and Carbonatites of the Snap Lake/King Lake Dyke System: Structural Setting, Petrochemistry and Petrology of a Unique Type of Association
Keywords: phlogopite, groundmass, carbonate, hypabyssal, group 1, group 2, olivine, geochemical, dike
FLA_0183

NP Pokhilenko, DA Zedgenizov, VP Afanasiev, GM Rylov, HJ Milledge, A Jones, AE Hall, LF Reimers
Morphology and Internal Structure of Diamonds from the Snap Lake/King Lake Kimberlite Dyke System, Slave Craton, Canada
Keywords: cathodoluminescence, cube, coated, X-ray topography, dike
FLA_0181

YH Poudjom Djomani, SY O'Reilly, WL Griffin, BJ Doyle
Geophysical Analysis of the Lithosphere Beneath the Slave Craton
Keywords: Slave craton gravity, Slave craton elastic thickness, slave craton deep structure, Slave craton kimberlite location, Slave craton lithosphere
FLA_0088

Authors

Abstract Title

File Name (.pdf)

D Prelevic, SF Foley, R Romer, V Cvetkovic
Serbian Tertiary Ultrapotassic Province-Petrology, Geochemistry and Geodynamic Significance
Keywords: lamproites, kamaugites, ultrapotassic, Mediterranean, Sr-Nd-Pb isotopes
FLA_0165

RF Preston, RJ Sweeney
A Comparison of Clinopyroxene Thermobarometric Techniques: Applied to Jwaneng, Orapa and Markt Kimberlites
Keywords: thermobarometry, clinopyroxene, Jwaneng, Orapa, Markt
FLA_0053

W Pretorius, H Helmstaedt, K Kyser
Whole Rock Platinum Group Element Geochemistry of Kimberlitic Rocks - a Window into the Nature of the Diamondiferous Mantle
Keywords: diamonds, on craton, off craton, metasomatism
FLA_0319

P Promprated, LA Taylor, C Floss, VG Malkovets, M Anand, WL Griffin, NP Pokhilenko, NV Sobolev
Diamond Inclusions from Snap Lake, NWT, Canada
Keywords: Slave Craton, in situ, garnet, clinopyroxene, REE, majorite
FLA_0082

RP Rapp, N Shimizu
On the Origin of Eclogite and Websterite Parageneses in the Cratonic Mantle, and their Relationship to TTG Granitoid Magmatism
Keywords: diamond inclusions, mantle xenoliths, sanukitoid, Archean cratons, continental crust, peridotite xenoliths
FLA_0307

GH Read, HS Grutter, LDS Winter, NB Luckman, GFM Gaunt
Stratigraphic Relations, Kimberlite Emplacement and Lithospheric Thermal Evolution, Quiricó Basin, Minas Gerais State, Brazil
Keywords: clinopyroxene, thermobarometry, kamaugite, Areado, Mata da Corda, Cretaceous
FLA_0304

TH Reddicliffe, J Jakimowicz, AJ Hell, JA Robins
The Geology, Mineralogy, and Near Surface Characteristics of the Ashmore and Seppelt Kimberlite Clusters, North Kimberley Province, Australia
Keywords: kimberlite, geochemistry, chromite, diamond, infill, dyke, dike, cluster, Striker Resources
FLA_0139

Authors

Abstract Title

File Name (.pdf)

S Rege, RM Davies, WL Griffin, S Jackson, SY O'Reilly
Trace Element Analysis of Diamond by LAM ICPMS: Preliminary Results

Keywords: diamond formation, mantle fluids, diamond paragenesis, diamond fingerprints

FLA_0087

SH Richardson, SB Shirey, JW Harris

Episodic Diamond Genesis and Kaapvaal Craton Evolution

Keywords: Archean, peridotitic, eclogitic, sulfide, inclusion, Re-Os, Sm-Nd, Rb-Sr, sulphide

FLA_0209

M. Roden, A. Patino-Douce, E. Laz'ko, E. Jagoutz

Exsolution Textures in High Pressure Garnets, Mir Kimberlite, Siberia

Keywords: kimberlite, xenolith, majorite, ilmenite, ultrahigh pressure

FLA_0184

HA Rollo, HE Jamieson

Processed Kimberlite - Water Interactions in Diamond Mine Waste, Ekati Diamond Mine™, N.W.T., Canada

Keywords: aqueous geochemistry, environmental geochemistry, kimberlite tailings, sulphate

FLA_0286

L Rombouts

Distribution of Diamonds and Kimberlites on the Reguibat Craton, Mauritania

Keywords: Reguibat, G10, Archean, Jurassic, Eburnean

FLA_0034

RL Rudnick, WF McDonough, PB Tomascak, T Zack

Lithium Isotopic Composition of Eclogites - Implications for Subduction Zone Processes

Keywords: xenoliths, Koidu, Trescolmen, stable isotope, Man Shield

FLA_0037

SM Sablukov, LI Sablukova

3-D Mapping of Mantle Substrate in the Zimny Bereg Area, Russia

Keywords: Arkhangelsk, kimberlite, mantle substrate, metasomatite, diamonds

FLA_0059

LI Sablukova, SM Sablukov, EM Verichev, NN Golovin

Mantle Xenoliths of the Grib Pipe, Zimny Bereg Area, Russia

Keywords: Arkhangelsk, kimberlite, mantle xenoliths, metasomatite, banded nodule

FLA_0060

Authors

Abstract Title

File Name (.pdf)

MD Schmitz, SB Shirey, RC Carlson

High-Precision U-Pb Geochronology and Lu-Hf Isotopic Systematics of Zircons in Southern African Cratonic Mantle Eclogites and Implications for Subcontinental Lithospheric Mantle Evolution and Metasomatism

Keywords: hafnium, Ventersdorp, rifting, Gondwana

FLA_0252

DJ Schulze, B Harte, JW Valley, DMDer Channer

Extreme Geochemical Variation Accompanying Diamond Growth, Guaniamo, Venezuela

Keywords: carbon isotopes, oxygen isotopes, coesite, garnet, subduction, cathodoluminescence, zoning, geochemistry

FLA_0187

DJ Schulze, JW Valley, KS Viljoen, MJ Spicuzza

Oxygen Isotope Composition of Mantle Eclogites

Keywords: geochemistry, garnet, alkemite, subduction, South Africa, kimberlite, laser fluorination

FLA_0188

HM Seitz, GP Brey, T Stachel, JW Harris

Lithium Abundances in Inclusions in Diamonds from the Upper and Lower Mantle

Keywords: Lithium, inclusions in diamonds, eclogites, peridotites, websterites, majorite

FLA_0182

E.A. Shamshina, Z.A. Altukhova, S.A. Babushkina

Facial Characteristics of Kimberlite Rocks from the Northern and Southern Parts of the Yakutian Kimberlite Province (in the Light of the Duken and Daldyn Kimberlite Fields)

Keywords: kimberlite breccia, geochronological dating, mineral associations, phenocrysts, groundmass, petrochemical characteristics, autolith

FLA_0384

VV Sharygin, AV Golovin, NP Pokhilenko

Djerfisherite from Unaltered Kimberlites of the Udachnaya-Eastern Pipe, Yakutia

Keywords: sulphide, olivine inclusions, silicate-carbonate melt, sulfide

FLA_0227

VS Shchukin, SM Sablukov, LI Sablukova, EA Belousova, WL Griffin

Late Vendian Aerial Alkaline Volcanism in the Winter Coast Kimberlite Area (Arkhangelsk Diamondiferous Province)

Keywords: Russian Platform, Kola-Dvina paleo-rift system, lamprophyre, volcanic, kimberlite, tuff, lava

FLA_0026

Authors

Abstract Title

File Name (.pdf)

PN Shelkov

New Occurrences of Diamonds Indicator Minerals and Alkaline-Ultramafic Rocks from the Eastern Border of the Hanka Massif, Primorye, the Far East, Russia

Keywords: Nezametninskaya Diamond Area, Eastern Chinese rift system, Kedrovka river basin, aillikite

FLA_0243

M Shirasaka, E Takahashi

A Genesis of Carbonatitic Melt Within Subducting Oceanic Crusts: High-Pressure Experiments in the System MORB-CaCO₃

Keywords: phase relations, subduction, carbonatite, carbonate-bearing eclogite

FLA_0043

SB Shirey, SH Richardson, JW Harris

Integrated Models of Diamond Formation and Craton Evolution

Keywords: Kaapvaal, craton, isotopic age, southern Africa, Archean, seismic tomography, inclusion, lithosphere

FLA_0267

A Shiryaev, ES Izraeli, E Hauri, EM Galimov, O Navon

Fluid-Inclusions in Brazilian Coated Diamonds

Keywords: brine, carbonatitic, hydro-silicic, melt, fibrous

FLA_0115

SK Simakov

Garnet-Clinopyroxene and Clinopyroxene Geobarometry of Deep Mantle Eclogites and Peridotites

Keywords: pressure, temperature, thermodynamics, xenoliths

FLA_0017

GJ Simandl

Diamond Potential in British Columbia, Canada?

Keywords: eclogite, alkaline province, ES-Diamond Model, diamondiferous mantle root, model, subduction, unconventional diamond

FLA_0368

NSC Simon, RW Carlson, GR Davies, GM Nowell, DG Pearson
OS-SR-ND-HF Isotope Evidence for the Ancient Depletion and Subsequent Multi-Stage Enrichment History of the Kaapvaal Cratonic Lithosphere

Keywords: metasomatism, depleted lithosphere, isotopic disequilibrium, trace element disequilibrium

FLA_0117

EMW Skinner, DB Apter, C Morelli, I Tomlinson, KN Smithson
Kimberlites of the Man Craton

Keywords: Guinea, Liberia, Sierra Leone, petrology, geochronology, tectonics, geomorphology

FLA_0225

Authors

Abstract Title

File Name (.pdf)

EMW Skinner, JS Marsh

Kimberlite Eruption Processes

Keywords: volcanology, diatreme, transitional, hypabyssal, pipe-formation

FLA_0040

AP Smelov, VF Timofeev, AI Zaitsev

A Geodynamic Model for the Formation of the North Asian Craton in the Early Precambrian

Keywords: c+D15raton, Precambrian, crystalline basement, orogenic belts, kimberlites

FLA_0094

CB Smith, KM Sims, L Chimuka, AD Beard, R Townend

Kimberlite Metasomatism at Murowa and Sese Pipes, Zimbabwe

Keywords: fenite, root-zone, emplacement, alkaline, fluids

FLA_0121

DB Snyder, MG Bostock, GD Lockhart

Mapping the Mantle Lithosphere for Diamond Potential

Keywords: teleseismic surveys, Slave craton, mantle layers, anisotropy

FLA_0233

NV Sobolev, AM Logvinova, DA Zedgenizov, ES Yefimova, LA Taylor, P Promprated, VI Koptil, NN Zinchuk

Mineral Inclusions in Diamonds from Komsomolskaya and Krasnopresnenskaya Pipes, Yakutia: Evidence for Deep Lithospheric Heterogeneities in Siberian Craton

Keywords: upper mantle, high pressure, pyrope, garnet, majorite

FLA_0141

NV Sobolev, AM Logvinova, DA Zedgenizov, ES Yefimova

Mineral Inclusions in Microdiamonds and Macrodiamonds from Kimberlites of Yakutia: A Comparative Study

Keywords: pyrope, garnet, upper mantle, high pressure, majorite

FLA_0143

NV Sobolev, AM Logvinova, ES Yefimova, DA Zedgenizov, D.M.DeR. Channer

Polymineralic Eclogitic Inclusions in Guaniamo Diamonds, Venezuela: Evidence for Variable Diamond Growth Conditions

Keywords: upper mantle, high pressure, coesite, garnet, paragenesis

FLA_0144

ZV Spetsius, LA Taylor

Metasomatic Diamonds in Eclogite Xenoliths: Petrologic and Photographic Evidence

Keywords: microdiamond genesis, young diamonds, partial melting, eclogites, metasomatism, metasomatic diamonds

FLA_0064

Authors
Abstract Title **File Name (.pdf)**

- ZV Spetsius
Highly Aluminous Xenoliths from Kimberlites of Yakutia: Mantle Petrology Remarks
Keywords: eclogite, diamond, xenolith, kimberlite, Yakutia
FLA_0065
- T Stachel, S Aulbach, GP Brey, JW Harris, I Leost, R Tappert, KS Viljoen
Diamond Formation and Mantle Metasomatism: A Trace Element Perspective
Keywords: inclusion, garnet, cpx, REE, eclogitic, harzburgitic, lherzolitic, subduction, metasomatism
FLA_0390
- LD Stasiuk, AR Sweet, DR Issler, K Kivi, GD Lockhart, DD Dyck
Pre- and Post-Kimberlite Emplacement Thermal History of Cretaceous and Tertiary Sediments, Lac de Gras, Northwest Territories, Canada
Keywords: vitrinite reflectance, rock eval, palynology, porosity, maceral, fluorescence, maximum temperature
FLA_0056
- J Stiefenhofer, DJ Farrow
Crater Deposits of the Mwadui Kimberlite
Keywords: Tanzania, De Beers, volcanoclastic, pyroclastic, open pit
FLA_0160
- GM Stott
Diabase Dyke Swarms as Structural Controls for Kimberlite Pipes Under the James Bay and Hudson Bay Lowlands, Ontario
Keywords: Attawapiskat, Kyle, Victor, Winisk, dike
FLA_0317
- MP Stublely
Spatial Distribution of Kimberlite in the Slave Craton: A Geometrical Approach
Keywords: Fry analysis, Lac de Gras, diabase dykes, diabase dikes, kimberlite clusters, alignment, corridors
FLA_0075
- MP Stublely
Interpretive Compilation of Bedrock Geology of the Slave Craton
Keywords: GIS, diabase dykes, diabase dikes, faults, lineaments, fractures, domain analysis, kimberlite
FLA_0076

Authors
Abstract Title **File Name (.pdf)**

- AR Sweet, LD Stasiuk, WW Nassichuk, O Catunneau, DJ McIntyre
Paleontology and Diamonds: Geological Environments associated with Kimberlite Emplacement, Lac de Gras, Northwest Territories, Canada
Keywords: palynology, dinoflagellates, late Cretaceous, Palaeogene, paleogeography, spores, pollen
FLA_0086
- S Tappe, SF Foley, GA Jenner, B Ryan, D Besserer, BA Kjarsgaard
Ultramafic Lamprophyre Dyke Swarm, Torngat Mountains, Quebec and Labrador: Mineralogy and Geochemistry
Keywords: Canada, aillikite, carbonatite, kimzeyite, Labrador Sea, heteromorphism, dike
FLA_0241
- R Tappert, T Stachel, JW Harris, GP Brey
Mineral Inclusions in Diamonds from the Panda Kimberlite, Slave Province, Canada
Keywords: lower mantle, mantle petrology, North America, Lac de Gras, Northwest Territories
FLA_0101
- LA Taylor, M Anand, P Promprated
Diamonds and their Inclusions: Are the Criteria for Syngensis Valid?
Keywords: syngensis, diamond inclusion, harzburgitic garnet, metasomatism, dating of diamond
FLA_0085
- LA Taylor, ZV Spetsius, R Wiesli, M Anand, P Promprated, JW Valley
The Origin of Mantle Peridotites: Crustal Signatures from Yakutian Kimberlites
Keywords: Yakutian diamonds, carbon isotopes, oxygen isotopes, mineral inclusions, P-type diamonds, E-type diamonds
FLA_0077
- EL Tomlinson, AP Jones, HJ Milledge, AD Beard
Multiple Fluids in Diamond Coat and their Role in Diamond Growth
Keywords: inclusions, mixing, synthesis, experimental
FLA_0151
- LA Tompkins, WA Taylor, DR Cowan
Diamond Prospectivity of the Altiawarra Craton, Australia
Keywords: North Australian Craton, magnetics, South Georgina Basin, Siberia, SKIPPY, shromite, rutile dates, zircon dates
FLA_0251

Authors

Abstract Title

File Name (.pdf)

P Ulmer, RJ Sweeney

Generation and Differentiation of Group II Kimberlites: Constraints from High Pressure Experiments 10 Gpa

Keywords: orangeites, MARID, multi-anvil apparatus, phlogopite, carbonatites

FLA_0378

E Van Achterbergh, WL Griffin, SY O'Reilly, CG Ryan, NJ Pearson, K Kivi, BJ Doyle

Melt Inclusions from the Deep Slave Lithosphere: Constraints on the Origin and Evolution of Mantle-Derived Carbonate and Kimberlite

Keywords: xenoliths, immiscibility, fluids, carbonate

FLA_0102

E Van Achterbergh, CG Ryan, WL Griffin, SY O'Reilly
Natural Trace Element Distribution between Immiscible Silicate and Carbonate Melts Imaged by Nuclear Microprobe

Keywords: fractionation, kimberlite, REE, calcite, rare earth elements

FLA_0103

B van Collier, P Hildebrand, D Verran, F Barnes, TE Nowicki, M. Baumgartner, L Ott, JJ Gurney

Southern African Case Studies of Variations in Indicator Mineral Characteristics with Distance from Kimberlite Source

Keywords: exploration, grain size, sample techniques, abrasion, surface textures, dispersion

FLA_0203

SK Verma

Geophysical Mapping of Kimberlite Pipes in South India

Keywords: geophysical, exploration, kimberlite, frequency and transient EM response, south India, challenges, geophysical surveys

FLA_0116

SK Verma

Geology, Geophysics, and Geodynamics of Extensive KCR Volcanism during Proterozoic Time in India

Keywords: kimberlites, lamproites, Rodinia, kimberlite Volcanism, Proterozoic KCR's in India, Superplume

FLA_0217

KS (Fanus) Viljoen, Rene Dobbe

A Diamondiferous Lherzolite from the Premier Diamond Mine, South Africa

Keywords: mineral chemistry, peridotite, xenolith, infrared, nitrogen

FLA_0112

NV Vladykin, MI Lelyukh, AV Tolstov, VP Serov

Petrology of Kimberlite-Lamproite-Carbonatite Rock Association, East Pristanbar'e (Russia)

FLA_0357

Authors

Abstract Title

File Name (.pdf)

K-L Wang, SY O'Reilly, WL Griffin, S-L Chung, W-S Juang
Geochemical Characteristics of Mantle Xenoliths from Penghu Islands, Taiwan Straits, SE Asian Margin

Keywords: subcontinental lithospheric mantle, southeastern China, metasomatism, mantle geochemistry, Proterozoic

FLA_0071

KJ Webb, BH Scott Smith, JL Paul, CM Hetman

Geology of the Victor Kimberlite, Attawapiskat, Northern Ontario, Canada: Cross-Cutting and Nested Craters

Keywords: pyroclastic, juvenile lapilli, petrography, olivine phenocryst, hypabyssal, emplacement, bulk sampling, emplacement

FLA_0353

KJ Webb, J Stiefenhofer, M Field

Overview of the Geology and Emplacement of the Jwaneng DK2 Kimberlite, Southern Botswana

Keywords: resedimented, volcanoclastic, pyroclastic, accretionary lapilli, emplacement, pipes

FLA_0359

KJ Westerlund, EH Hauri, JJ Gurney

FTIR Absorption and Stable Nitrogen and Carbon Isotope Microanalysis of Mid-Archaean Diamonds from the Panda Kimberlite

Keywords: cathodoluminescence, fractionation, sulfide, Inclusion, sulphide

FLA_0137

KJ Westerlund, SB Shirley, SH Richardson, JJ Gurney, JW Harris

RE-OS Isotope Systematics of Peridotitic Diamond Inclusion Sulfides from the Panda Kimberlite, Slave Craton

Keywords: Archean, lithosphere, isochron, melt-depleted, sulphide

FLA_0134

K Whitehead, SH Richardson

A Geochemical Study of Peridotitic Diamonds from Premier Mine

Keywords: carbon, nitrogen, isotopes, aggregation, geothermobarometry

FLA_0154

C Williams, B Van Collier, T Nowicki, J Gurney

Mega Kalahari Geology: Challenges of Kimberlite Exploration in this Medium

Keywords: desert, craton, super-swell, kimberlite, phanerozoic, sedimentary, South Africa, exploration

Keywords: desert, craton, super-swell, kimberlite, phanerozoic, sedimentary, South Africa, exploration

FLA_0006

Extended Abstract Index – continued



Authors

Abstract Title

File Name (.pdf)

L Wilson, JW Head

Diatremes and Kimberlites 2: An Integrated Model of the Ascent and Eruption of Kimberlitic Magmas and the Production of Crater, Diatreme, and Hypabyssal Facies

Keywords: dikes, sill, root zone, carbon dioxide, xenoliths, peridotite, dykes

FLA_0244

BA Wyatt, M Mitchell, SR Shee, WL Griffin, N Tomlinson, B White

The Brockman Creek Kimberlite, East Pilbara, Australia

Keywords: mineral chemistry, trace elements, geotherm, diamond, spinel, garnet, apatite fission track, diamond indicator minerals

FLA_0180

AP Yelisseev, NP Pokhilenko, DA Zedgenizov, J Steeds

Features of Coated Diamonds from the Snap Lake/King Lake Kimberlite Dyke System, Slave Craton, Canada, as Revealed by Optical Topography

Keywords: transmission, photoluminescence, growth, Raman, absorption spectroscopy, fibrous, nitrogen, dike

FLA_0179

JP Zonneveld, BA Kjarsgaard, SE Harvey, KY Marcia, D McNeil, LM Heaman, DJ White

Sedimentologic and Stratigraphic Constraints on Emplacement of the Star Kimberlite, East-Central Saskatchewan

Keywords: pyroclastic, volcanoclastic, primary kimberlite, secondary kimberlite, Cretaceous, Fort a la Corne, Canada, tephra

FLA_0296

Authors

Abstract Title

File Name (.pdf)