Diamonds, Kimberlites, and Related Geology
February 2016

Highlights

PDAC 2016   DIAMOND SESSION Monday March 7, 2017  2 pm – 5pm

Diamonds in southern Africa: back to the beginning.
Mike De Wit: Southern Africa diamond resources: a summary
Jim Davidson: Petra Diamonds: a leading independent diamond producer
John Armstrong: Karowe diamond mine: a world-class source of large, exceptional diamonds
John Bristow: Changes, consolidation and the future of the international diamond business
Chaim Even-Zohar: The diamond industry in a perfect storm: profitability, demand, transparency & synthetics.
Back up speaker for Diamond Session and speaking in the Sunday March 6 Commodities session: Jim Pounds: Diamonds at 2.40 pm (Thank you Jim)

11th International Kimberlite Conference, Gaborone, Botswana, 18-22 September, 2017
www.11ikc.com

11th International Kimberlite Conference, Gaborone, Botswana, 18-22 September, 2017

International Kimberlite Conferences are special events, which take place about every four years. Generous sponsorship has been a key to the success of these conferences. The organisers would welcome any expression of interest in sponsoring of the 11th International Kimberlite Conference via the 11 IKC Secretariat (secretariat@11ikc.com).

Articles of interest:

Jacques: Major and trace element variations in oxide and titanate minerals West Kimberley lamproites IN: Mineralogy and Petrology
Petts, Stachel, Stern, Hunt, Fomrades: Multiple carbon and nitrogen sources (parental mantle fluids) of fibrous diamonds IN: Contributions to Mineralogy and Petrology
Diavik IN: Contributions to Mineralogy and Petrology
Smart, Tappe, Stern, Webb, Ashwal: Early Archean tectonics and mantle redox recorded in Wits diamonds IN: Nature Geoscience

Kind Regards,
Pat Sheahan
Honorary Research Associate University of British Columbia /MDRU

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is dedicated to advancing research driven mineral exploration by increasing the awareness and availability of scientific publications and technical resources.

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11th International Kimberlite Conference

Gaborone, Botswana
18-22 September 2017
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50 Years of Diamonds in Botswana

Conference Themes

- Emplacement and Economic Geology of Kimberlites and Related Magmas
- The Diamond Substrate – Petrology and Geochemistry of Earth’s Mantle
- Geology and Gemmology of Diamond
- The Origin and Evolution of Kimberlites and Related Magmas
- Diamond Deposits – Exploration and Mining
- The Structure of Cratons

Field Trips

- Desert Gems – Botswana’s Major Mines
- The First Gems – Kimberley and Surrounds, South Africa
- Highveld Gems – From the Pre-Cambrian to the Cretaceous, South Africa
- Highland Gems – Maluti Mountain Diamonds, Lesotho
- Rivers that Sparkle – The Alluvial Deposits of Central South Africa
- Ocean Gems – The Namibian Megaplacer
- Zimbabwe Gems – Murowa and the Enigmatic Marange Deposits
- Kalahari Gems – Botswana’s Newest Mine
- Gaborone – Day Trips

Photo credits left to right: Orapa North Kimberlite, B. Scott Smith; Zebra, S. Smith; Orapa Mine, M. Brick; 1.79ct Pink Diamond, Lucara Diamond Corporation; Gaborone International Convention Centre; Diamond Trading Centre, U. Neermark.
BARRINGER - THE BOOK by Peter Bradshaw

Exploration, Remote Sensing, Environment, Analysis, Security

The 1960’s and 70’s were marked by an explosion in mineral exploration and remote sensing technology. A leader throughout this period was Dr. Anthony (Tony) Barringer and his team at Barringer Research Ltd. (BRL). The highly successful airborne geophysical methods created at BRL are well known while the contributions to exploration geochemistry and many other fields are not. This book documents the many advances in geochemical theory, as well as the ground, airborne and remote sensing techniques plus analytical methods that were conceived and developed under the leadership of Tony Barringer. Innovative concepts backed by pioneering research funded by BRL on the movement of metals in rock, soil and vegetation remain important areas of investigation. Tony Barringer’s ability to bring together a diverse team including geologists, geochemists and physicists with electrical, optical and aeronautical engineers under one roof, provide leadership, a highly stimulating environment and financial support, was truly remarkable. This led to ground breaking advances in a number of different fields, including: exploration geochemistry for minerals and oil and gas; environmental monitoring from the ground, aircraft and space; and civilian and armed forces security. The underlying scientific principles for many of the inventions, now upgraded with modern electronics, are still considered state of the art. One of the many inventions from the BRL “incubator” described in this book is Ionscan, the drug and explosive screening device used in most airports today, which was conceived and developed by BRL in conjunction with technology for the detection of mineral deposits.

Costs: US $68.00 or soft cover US $58.00

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<td>D1602-01</td>
<td>Haggerty, S.E.</td>
<td>2016</td>
<td>Spinel in planetary systems.</td>
<td>American Mineralogist,</td>
<td>Technology</td>
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<td>Vol. 101, pp. 5-6.</td>
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<td>D1602-02</td>
<td>Di Pierro, S., Gnos, E.</td>
<td>2016</td>
<td>Ca-Al-silicate inclusions in natural moissanite (SiC).</td>
<td>American Mineralogist,</td>
<td>Europe, Turkey</td>
<td>Moissanite</td>
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<td>Kleffner, M.A.</td>
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<td>stratigraphy of the Victor mine ( V-03-270-AH) core in the Moose River</td>
<td>Science, Vol. 52, pp. 1169-1181.</td>
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<td>resource and the history of geology.</td>
<td>in press available 9p.</td>
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<td>D1602-05</td>
<td>Song, WL., Xu, C., Veksler,</td>
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<td>Experimental study of REE, Ba, Sr, Mo and W partitioning between</td>
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<td>Le Roex, A., Class, C.</td>
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<td>Metasomatic enrichment of Proterozoic mantle south of the Kaapvaal</td>
<td>Contribution to Mineralogy</td>
<td>Africa, South</td>
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<td>craton, South Africa: origin of sinusoidal REE patterns in clinopyroxene</td>
<td>and Petrology, Vol. 171, 24p.</td>
<td>Africa</td>
<td>Hebron, Uintjesberg,</td>
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<td>D1602-08</td>
<td>Neto, I.C., Cunha, L.M.,</td>
<td>2015</td>
<td>Discovery and confirmation of the first kimberlitic intrusion in the</td>
<td>CPRM, Informe Technico in Port</td>
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<td>Deposit - Santa Fe-1,2</td>
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<td>Silveira, F.V., Nannini, F.,</td>
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<td>Bororema Province, NE Brazil.</td>
<td>(abstract in english), No. 2,</td>
<td>Brazil</td>
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<td>de Oliveira, R.G., deSouza, W.S.</td>
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<td>Nov. 7p.</td>
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<td>Morris, B.J.</td>
<td>2015</td>
<td>Eurelia kimberlite province; new evidence for multi-phase intrusions. Ages for kimberlite zircon (277 Ma) Permian intrusive event... Alluvial diamonds in Springfield Basin.</td>
<td>Department of Primary Industries and Resources South Australia, Report 2015/8, 9p.</td>
<td>Australia, south</td>
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<td>D1602-47</td>
<td>Henderson, R.</td>
<td>2015</td>
<td>The first gravity meter designed, built and used in Australia in the late 1890's and very</td>
<td>Preview (Geophysics), December pp. 53-61.</td>
<td>Australia</td>
<td>History - gravity meter</td>
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<td>Aulbach, S., Mungall, J.E., Pearson, D.G.</td>
<td>2016</td>
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<td>Reviews in Mineralogy and Geochemistry, Vol. 81, pp. 239-304.</td>
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<td>D1602-63</td>
<td>McCandless, T.</td>
<td>2016</td>
<td>Perspectives on the Buffalo Head Hills kimberlites from 'new' data.</td>
<td><em>Vancouver Kimberlite Talks</em>, Jan. 20, 1p. Abstract</td>
<td>Canada, Alberta</td>
<td>Deposit - BHH</td>
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<td>ABN-AMRO</td>
<td>2016</td>
<td>Diamond sector outlook - Nothing is forever.</td>
<td>ABN-AMRO, Jan. 19,</td>
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<td>D1602-65</td>
<td>Allafrica</td>
<td>2015</td>
<td>The Angolan Head of State issued last September a decree which regulates the execution of important sections of the Mining Code.</td>
<td>Allafrica.com, Dec. 21, 1/4p.</td>
<td>Africa, Angola</td>
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<td>D1602-66</td>
<td>Allafrica</td>
<td>2016</td>
<td>Debmarine Namibia says its dream of building a diamond exploration and sampling vessel is being realized in Ulsteinvik, Norway. SS Nujoma was launched from Kleven Verft shipyard.</td>
<td>Allafrica.com, Jan. 11, 1/2p.</td>
<td>Africa, Namibia</td>
<td>News item - Debmarine</td>
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<td>D1602-67</td>
<td>Allafrica</td>
<td>2016</td>
<td>Reserve bank of Zimbabwe governor Mangudya has said the country is losing a lot of potential income due to lack of transparency in the diamond sector.</td>
<td>Allafrica.com, Jan. 24, 2p.</td>
<td>Africa, Zimbabwe</td>
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<td>D1602-70</td>
<td>Republic of Mining</td>
<td>2016</td>
<td>Deninu Kue First Nation takes fight for benefits to new Indigenous Affairs minister. (previous diamond mines)</td>
<td>CBC.ca, Jan. 19, 1/2p.</td>
<td>Canada, Northwest Territories</td>
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<td>D1602-97</td>
<td>Diamonds.net</td>
<td>2015</td>
<td>Lazare Kaplan subject to SEC action over failure to submit filings.</td>
<td>Diamonds.net, Dec. 31, 1/4p.</td>
<td>USA</td>
<td>News item - Lazar Kaplan</td>
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<td>Diamonds.net</td>
<td>2016</td>
<td>Rio Tinto's diamonds head to depart in restructuring. Lieberherr replaced by Trott.</td>
<td>Diamonds.net, Jan. 18, 1/4p.</td>
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<td>Diamonds.net</td>
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<td>Kennady announces highest commercial sample grade from Canada project.</td>
<td>Diamonds.net, Jan. 27, 1/4p.</td>
<td>Canada, Northwest Territories</td>
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<td>Diamonds.net</td>
<td>2016</td>
<td>World's largest Blue Star sapphire found in Siri Lanka. 1404.49 cts</td>
<td>Diamonds.net, Jan. 5, 1/4p.</td>
<td>Asia, Sri Lanka</td>
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<td>Idex memo</td>
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<td>If you want it, put a ring on it. Females proposing in Leap Year.</td>
<td>Idexonline.com, Jan. 21, 1p.</td>
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<td>RioZim injects $ 60 million lifeline into Murowa. Aims to expand production to 1 m carats</td>
<td>Idexonline.com, Jan. 26, 1/4p.</td>
<td>Africa, Zimbabwe</td>
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<td>D1602-113</td>
<td>Ehud ayre Laniado</td>
<td>2016</td>
<td>Diamond pricing reform.</td>
<td><a href="mailto:info@ehudlaniado.com">info@ehudlaniado.com</a>, Jan. 11, 4p.</td>
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<td><a href="mailto:info@ehudlaniado.com">info@ehudlaniado.com</a>, Jan. 13, 5p.</td>
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<td>2016</td>
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<td><a href="mailto:info@ehudlaniado.com">info@ehudlaniado.com</a>, Jan. 25, 4p.</td>
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<td><a href="mailto:info@ehudlaniado.com">info@ehudlaniado.com</a>, Jan. 4, 12p.</td>
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<td>Peregrine Diamonds Ltd., Jan. 12, 6p.</td>
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<td>Diamond mining industry to grow at 5% CAGR during 2015-2019.</td>
<td><a href="http://www.reportsnreports.com">www.reportsnreports.com</a>, Jan. 8, $3800.00 copy</td>
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