

Keynote Address:

Honourable Minister
Dr P.H.K. Kedikilwe

Keynote Speakers:

Mr Gabaake Gabaake
and
James Allan

Contributors include:

Dr Mike Daniel
Dr Mike De Wit
Dr John Gurney
Gary Lane
Dr Tom Nowicki
ABN Amro
Apollo Diamond Inc
Remote Exploration
Services
Matrix Diamonds

COLLOQUIUM

Following on from the events held in 2003, 2005 and 2007, the SAIMM is hosting the 4th Colloquium on

Diamonds—Source to Use 2010



The fourth biennial colloquium will address the full spectrum of activities within the diamond industry. Building on the success of the 2007 event, The Southern African Institute of Mining and Metallurgy aims to provide a meeting place for all diamond industry participants to contextualize their roles and identify subsequent opportunities.

1–3 March 2010

**Gaborone International Convention Centre,
Botswana**

DE BEERS
A DIAMOND IS FOREVER

PBA Projects (Pty) Ltd

**For sponsorship and
exhibition opportunities**

For further information contact:

Head of Conferencing,
Jackie van der Westhuizen,
SAIMM, P O Box 61127,
Marshalltown 2107
Tel: (011) 834-1273/7
Fax: (011) 833-8156 or
(011) 838-5923

E-mail:

jackie@saimm.co.za

Website:

<http://www.saimm.co.za>

Final Announcement

PRELIMINARY PROGRAMME

Sunday 28 February 2010

17:00–19:00 **Cocktail Function & Pre-Conference Registration**

Day 1: Monday 1 March 2010

SESSION CHAIRMAN: W. Morrell

07:30–08:30 **Registration and Coffee**

08:30–08:35 **Welcome**—W. Morrell, *Chairman of Diamonds Conference Committee*

08:35–08:45 **Welcome Addresses**
J.C. Ngoma, *President, SAIMM*

08:45–09:15 **Keynote Address:**
Hon. Minister Dr P.H.K. Kedikilwe, *Minister of Minerals, Energy and Water Resources, Botswana*

09:15–09:45 **Morning Tea**

Session 1: Research and exploration

SESSION CHAIRMAN: H. Ingram

9:45–10:05 **Developments in Kimberlite emplacement theory**
E.M.W. Skinner, *The Wolfe Trust, Grahamstown*

10:05–10:25 **Diamond exploration—where to now? (PRESENTATION ONLY)**
G. Garlick, *Remote Exploration Services*

10:25–10:45 **Identification of global diamond metallogenic clusters to assist exploration**
M. de Wit, *University of Pretoria*

10:45–11:05 **Panel Session Discussion**

11:05–11:25 **Morning Tea**

Session 2: Mineral Resource Management

SESSION CHAIRMAN: B. van Coller

11:25–11:45 **Exploration—A significant geo-metallurgical resource understanding opportunity**
M. van Staden and M. Swanepoel, *GEMET*

11:45–12:05 **Decoding the diamonds from the AK6 kimberlite**
I.L. Chinn, M.A. Krug, W.P. Minnie and C.T. Rikhotso, *De Beers Group Exploration*

12:05–12:25 **The Jwaneng resource extension project—defining the resource, shaping the future**
M.A. Roberts, *Jwaneng Mine Debswana*

12:25–12:45 **Assessment of geological grade and value uncertainty in early-stage evaluation of kimberlite diamond deposits (PRESENTATION ONLY)**
T. Nowicki, *Mineral Services*

12:45–13:05 **An overview of the estimation of kimberlite diamond deposits**
D. Bush, *Zstar*

13:05–13:15 **Panel Session Discussion**

13:15–14:00 **Lunch**

Session 3: Projects and Technology

SESSION CHAIRMAN: D. Munro

14:00–14:20 **Jwaneng open pit mine cut 8 south east wall slope design**
A.B. Tunono and L. Dimbungu, *Debswana*

14:20–14:40 **The Renard Project building a Canadian diamond resource base**
D. Skelton, *Stornoway Diamond Corporation*

14:40–15:00 **Inclined caving as a massive mining method**
D.D. Munro, *TWP Projects*

15:00–15:20 **Exploration and Development at the Mothae Kimberlite, N. Lesotho**
Dr J. Gurney, *Lucara Diamonds*

15:20–15:40 **Panel Session Discussion**

15:40–16:00 **Afternoon Tea**

Session 4: Technology

SESSION CHAIRMAN: A. von Johannides

16:00–16:20 **Rapid underground development optimisation at cullinan diamond mine using computer simulation**
J. Botha and S. Nichol, *Simulation Engineering Technologies* and B. Swarts, *Petra Diamonds*

16:20–16:40 **A Directional Drilling Technique for Exploration and Mining of Deep Alluvial Diamond Deposits**
E. Uludag, *The University of the Witwatersrand*

16:40–17:00 **Economic modelling and its application in strategic planning**
G.R. Lane, B. Milovanovic, and E. Bondi, *Cyest Corporation*

17:00–17:20 **Panel Session Discussion**

17:20–17:35 **End of Conference**

18:00 **Conference Dinner**

Day 2: Tuesday 2 March 2010

SESSION CHAIRMAN: W. Morrell

07:30–08:30 **Registration and Coffee**

08:30–08:35 **Welcome**
W. Morrell, *Chairman of Diamonds Conference Committee*

08:35–09:05 **Keynote address**
J. Allan, *Allan Hochreiter (Pty) Ltd*

Session 5: Mineral processing

SESSION CHAIRMAN: D. McKay

09:05–09:25 **The development of AK6**
J.A.H. Campbell*, W. Lamb¹, J. Clarke², K. Petersen*, ³*African Diamonds*, ⁴*Lucara Diamond Corporation*, ⁵*Paradigm Project Management*, and ⁶*Metal Dog Minerals*

09:25–09:45 **Recovery of unliberated diamonds by X-Ray transmission sorting**
F. Riedel and M. Dehler, *CommodasUltrasort, South Africa and CommodasUltrasort, Germany*

09:45–10:05 **Can diamonds go all the way with HPGR's**
M.J. Daniel and C. Morley, *Ausenco Minerals*

10:05–10:25 **ORAPA 3 Plant Conceptual Design Evolution in Action (Let the ore dictate the plant you build!)**
G. Popplewell, *Fluor Corporation* and B. Baeletse, *Debswana Diamond Company*

10:25–10:35 **Panel Session Discussion**

10:35–10:55 **Morning Tea**

Session 6: Mineral processing and technology

SESSION CHAIRMAN: G. Popplewell

10:55–11:15 **State-of-the-art recovery plant design**
D.M.C. Valbom and G. Dellas, *Debtech*

11:15–11:35 **Finsch Mine treatment plant upgrade project**
D. Olivier and F. Bornman, *Bateman Engineering Projects*, L. Roode, and A. Acker, *Finsch Mine, De Beers Consolidated Mines Ltd*

11:35–11:55 **Rapid deployment plant (RDP) for tailings treatment at Jwaneng Mine**
E. Mpoloka, *Debswana*

11:55–12:15 **Letseeng Mine No 2 Plant Project—A process engineering and design review**
F. Bornman, *Bateman Engineering Projects*

12:15–12:35 **Panel Session Discussion**

12:35–13:35 **Lunch**

Session 7: State, governance and industry

SESSION CHAIRMAN: H. Mphusu—TBC

13:35–14:05 **TBC:**
Mr C. Elphick, *Gem Diamonds Limited*

14:05–14:25 **Keynote Address: Botswana and the diamond industry**
Mr G. Gabaake, *Permanent Secretary Ministry of Mines, Energy and Water Resources*

14:25–14:45 **Sustainability—luxury, grudge or necessity**
L. Prosch, *Marsh Environmental Services* and A. Botha, *Gem Diamond Technical Services*

14:45–15:05 **The social impact of diamond mining—Is it time to revisit the Scorecard?**
N. Morris and N.L. Baartjes, *Mintek*

15:05–15:25 **South African diamond mining production: A review**
S. Kirkpatrick and M. Roux, *Snowden*

15:25–15:35 **Panel Session Discussions**

15:35–15:55 **Afternoon Tea**

Session 8: Finance and manufacturing

SESSION CHAIRMAN: W. Morrell

15:55–16:15 **TBC**
M. Terwindt, *ABN Amro, Botswana*

16:15–16:35 **Revolution in diamond manufacturing**
P. van der Steen, *Matrix*

16:35–16:55 **CVD grown diamond - 2009**
R. Linares, P. Doering, B. Linares, *Apollo Diamond, Inc.*

16:55–17:05 **Panel Session Discussion**

17:05–17:10 **Close of Conference**

OBJECTIVES

All diamond industry participants are experiencing global economic restructuring acutely. The SAIMM aims to address current concerns by developing a complete perspective of the industry, locally, regionally and internationally.

WHO SHOULD ATTEND

Local, regional and international participants in:

- > Geological theory of resource genesis
- > Diamond exploration
- > Resource and reserve development
- > Project implementation
- > Extractions, processing and beneficiation operations
- > Sale and marketing
- > Industry and state governance
- > Diamond jewellery retail
- > Synthetic diamonds

TOPICS

- > Geology and exploration
- > Mine projects
- > Mining, metallurgical and beneficiation technology
- > Rough diamond sales and marketing
- > Cutting and polishing
- > Financial services and industry analysis
- > Diamond jewellery retail
- > Industry governance and legislation
- > Synthetic diamonds

LIST OF HOTELS

Delegates should make their own accommodation arrangements. Kindly note that all delegates qualify for a discounted rate when booking their own accommodation at the venue: Please indicate that you are part of the conference when booking.

Metcourt at the Grand Palm, Gaborone, Botswana

Tel: +267 363 777
Fax: +267 391 2989
E-mail: info@grandpalm.bw
Website: www.grandpalm.bw

Walmart at The Grand Palm, Gaborone, Botswana

Tel: +267 363 777
Fax: +267 391 2989
E-mail: info@grandpalm.bw
Website: www.grandpalm.bw

TECHNICAL VISIT—3 March 2010

Delegates may select to attend one of the following site visits, dependent on the hosts capacity and subscription to the option.

Jwaneng Resources Extension Programme
Jwaneng Mine
Eurostar Diamonds
Diamond Trading Company Botswana

WAIVER OF LIABILITY

The conference organisers have taken all reasonable care in making the arrangements for the conference and technical visits. The organisers do not accept liability for any loss or injury sustained, while using the independent tour operator or for unforeseen changes to the programme. The organising committee reserves the right to cancel any tour or visit due to insufficient interest.

HEALTH

Throughout Botswana at hotels, inns, lodges and other public places, tap water is purified and safe to drink. Please remember that water is a scarce resource, especially in a drought-stricken area such as Botswana so please be respectful and help to conserve water.

Should delegates intend travelling on safari before or after the conference, they should consult their doctor's about the need for malaria prophylactics. Start your course at least 24 hours before entering the country and continue taking the pills for 6 weeks after your departure. If you suffer from side effects, try taking your malaria prophylactics at night, after dinner, as this usually minimizes the effect of the symptoms.

Even while taking prophylactics, you should still take precautionary measures to prevent contact with mosquitoes, such as: sleeping under a bed-net or in a room/tent with mosquito proofing (remember to keep the flaps zipped at all times); spraying your accommodation with insecticide; making use of a mosquito-repelling lotion or stick; and wearing long-sleeve clothing, long trousers and socks when outside at night. Any person entering Botswana from or via a yellow fever infected area must be in possession of a valid International Certificate of Vaccination against yellow fever.

TRAVEL INSURANCE

If you need medical care whilst in Botswana, it is best to be aware that medical providers may not accept payment through your insurance company. In these circumstances you will have to pay in full after your treatment and file a claim with your insurance company for reimbursement. Therefore you should have access to cash, either from a credit card or by wire transfer. If you need assistance contact your country's local embassy or representative.

To be compensated you must be treated by licensed medical personnel and provide your insurance company with proper documentation and receipts.

It is advisable to always ensure you have a comprehensive travel insurance policy which covers you for repatriation to your home country.

TRAVEL AND TOURS—BOTSWANA

An independent company has been sourced to offer transport and pre- or post conference tours for delegates.

If you would like to take advantage of the offer contact: raymond@saimm.co.za. at the SAIMM.

VISAS AND IMMIGRATION

Visas are required by all nationals except those of Commonwealth countries, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Rep. of Ireland, Italy, Liechtenstein, Luxembourg, Namibia, Netherlands, Norway, Pakistan, Western Samoa, San Marino, South Africa, Sweden, Switzerland, Uruguay and USA. Visas ARE required for nationals of Ghana, India, Mauritius, Nigeria and Sri Lanka. Stay permits, which are extendable up to 30 days, are issued at the border.

Important note: **This is a guide only**—please check with your nearest Botswana Consulate for up-to-date information.

A valid passport is needed for ALL international travel. Please ensure your passport is valid for at least 6 months AFTER returning from your trip—this is an international requirement. It is also essential that you have sufficient blank pages in your passport for visas, entry stamps or temporary residence permits. We recommend allowing two blank pages per country that you are planning to visit.

Some countries will require entry, re-entry or departure permits and/or visas, which are issued at their consulates/embassies. You will find broad guidelines for your visa requirements on the Wild Times website. These guidelines are supplied by an independent company—however, it is vital for you to realize that each country's requirements may change at any given time and that Wild Times has no control over this process.

COLLOQUIUM Diamonds—Source to Use 2010

1–3 March 2010

Gaborone International Convention Centre, Botswana



The Southern African Institute of Mining and Metallurgy
Founded in 1894

Please complete and return to:
SAIMM, P.O. Box 61127, Marshalltown, 2107
Tel: +27 11 834 1273/7 · Fax: +27 11 838 5923 or 833 8156
E-mail: jackie@saimm.co.za (Conference Organiser) or
anna@saimm.co.za (Registration)

PERSONAL DETAILS

Title First Name Other Initials Surname/Family Name

Preferred Name (for use on name badge)

Company Position

Company VAT Registration (Compulsory—SA delegates) Order No

Invoice Address

..... Code Country

Tel/Cell: Fax: E-mail:

Accompanying Persons Name

SAIMM Membership No. Are you a presenting author? Do you require an invitation for visa purposes?

Please note: • Non-members are entitled to free membership of the SAIMM, up to 30 June 2009, for attending this conference.
• Members of the Geological Society of South Africa are entitled to the same rates for registration as the SAIMM members.

2 ECSA CPD points will be allocated to all attending delegates

REGISTRATION FEES — All prices are inclusive of VAT.

Please indicate your choice by (✓ tick).

Registration fees:

SAIMM/GSSA members/presenting authors	ZAR 8 700	<input type="checkbox"/>
Non Members	ZAR 9 500	<input type="checkbox"/>
Student Members	ZAR 2 500	<input type="checkbox"/>

Registration fees include: Attendance at technical sessions on 1–2 March 2010, proceedings, cocktail party, all refreshments and lunches at the conference and a site visit on 3 March 2010.

Cancellation: No cancellation will be accepted after 30 January 2010.

ACCOMPANYING PERSONS PROGRAMME

This price is inclusive of all conference lunches and social events.

ZAR 1 000

SOCIAL FUNCTIONS

■ Cocktail party (Sunday 28 February 2010)

Please indicate (✓ tick) for catering purposes if you will be attending this function (included in the registration fee for all fully registered delegates, students and accompanying persons).

YES I will be attending (registered delegates) N/C
YES Additional guests people

■ Gala dinner (Monday 1 March 2010)

Please indicate (✓ tick) for catering purposes if you will be attending this function (included in the registration fee for all fully registered delegates, students and accompanying persons).

YES I will be attending (registered delegates) N/C
YES Additional guests people

■ Special requirements — Please advise of any special requirements for diet, health or physical disabilities.

.....

TECHNICAL VISIT (Wednesday 3 March 2010)

Please indicate (✓ tick) which technical tour you wish to attend. The cost is ZAR 1 000.00 per person per tour.

No. of participants

- Jwaneng Resources Extension Programme
- Jwaneng Mine
- Eurostar Diamonds
- Diamond Trading Company

Boot size Overall size

Identity or passport No:

PAYMENT

Please include payment itemised as follows:

Conference registration fee	ZAR
Technical visits	ZAR
Accompanying persons programme	ZAR
TOTAL ZAR

Cheques—Please find enclosed a cheque/money order (in SA rands) payable to SAIMM or

Credit Cards—Please debit (✓ tick) my:

Visa Mastercard American Express Diners Club

Card No.

CVC authorisation (last 3 digits on the back of the card)

Expiry date:

Signature:

Please print name of cardholder:

.....

Full payment is due on application for registration. Registration will be confirmed ONLY after payment is received. PROOF OF PAYMENT with your invoice number reflected must be sent via fax or e-mail to the Conference Co-ordinator. Delegates who have not paid will not be permitted to attend the conference.

Our banking details are:

Bank: Standard Bank	Branch: Johannesburg
Branch Code: 000205	Account No: 000402974
Account Type: Cheque Account	Swift No. SBZAZAJJ

For further information contact:

Head of Conferencing,
Jackie van der Westhuizen, SAIMM
P O Box 61127, Marshalltown 2107
Tel: (011) 834-1273/7
Fax: (011) 833-8156 or (011) 838-5923
E-mail: jackie@saimm.co.za
Website: <http://www.saimm.co.za>