REGISTRATION FEES — All prices are inclusive of 14% VAT.
Please indicate your choice by (✓) tick.

SAIMM Members and Presenting Authors
R 6 270.00

GSSA/TMS/IRE Members
R 6 270.00

Non Members
R 7 410.00

SAIMM Student Members
R 1 710.00

Registration fees include attendance at technical sessions, proceedings, registration bag, all refreshments and lunches at the Conference, attendance at the Maropeng Banquet and the Hot Air Balloon ride.

SOCIAL FUNCTIONS

Conference Banquet at Maropeng (Tuesday 7 March 2006)
Please indicate (✓) tick for catering purposes if you will be attending. Included in the Registration Fee for all Registered Delegates and R350.00 for Accompanying guest.

YES (✓) I will be attending (registered delegate) No Charge
YES (✓) I will be attending (accompanying guest) R 350.00

Hot Air Balloon ride at sunrise
Please indicate (✓) tick for booking purposes if you will be interested in taking the ride. Included in the Registration Fee for all Registered Delegates and R1 300.00 for Accompanying guest.

YES (✓) I will be attending (registered delegate) No Charge
YES (✓) I will be attending (accompanying guest) R 1 300.00

Approximate mass of each person for hot air balloon..........................

Special Requirements — Please advise any special requirements regarding diet, health or physical disabilities.

TECHNICAL VISITS
Please indicate (✓) tick. If you are interested in participating:

No. of Persons

- Wednesday Afternoon - 8 March
  Visit to one plant—R250.00

- Wednesday Afternoon and all day Thursday 9 March
  Visit to three plants—R500.00

ACCOMMODATION
Glennburn Lodge has been especially reserved for the conference and preferential rates have been negotiated. Rates include dinner, bed and breakfast. Please indicate (✓) tick which suite you would be utilising.

- Hotel/Chalet
  Single R 700.00
  Double R 1 300.00

- Garden Suite
  Single R 200.00
  Double R 800.00

Arrival date............................ Departure Date

No. of nights

PAYMENT
Please include payment itemised as follows:

- Conference Registration Fee
- Conference Banquet (Accompanying Persons)
- Hot Air Balloon (Accompanying Persons)
- Technical visits
- Accommodation

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. ..............................................................

Expiry Date........................................... Last 4 digits on back of card

Signature: .................................................................................................

Please print name of card holder:

Our banking details are:

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

SOUTHERN AFRICAN PYROMETALLURGY
INTERNATIONAL CONFERENCE

PYROMETALLURGY 2006

5–8 March 2006

Cradle of Humankind, South Africa
BACKGROUND

The SAIMM Pyro 2006 conference is an international conference on pyrometallurgy with a southern African flavour. The primary intention is to showcase southern African pyrometallurgical operations and to provide a forum for the exchange of ideas between people from various types of smelters. Papers have been obtained from as many as possible of the Southern African pyrometallurgical plants. These papers include a description (and perhaps history) of the operations, and could include some highlights of current work. These descriptions of plant operations will be published as a reference book that would provide very useful information for metallurgists entering the field. The papers will also be published on a website where they can be updated as and when required. The conference will cover as much as possible of the entire field of pyrometallurgy. Some contributions will also be included from universities, research organisations, and engineering companies, so that the full spectrum of pyrometallurgical activities can be covered. International participation is strongly encouraged, with some broad overview papers dealing with international trends to be presented by experts in various topical technologies and commodities.

The conference will take place in the 'Cradle of Humankind' world heritage area, about 30 km from Johannesburg. This keeps the conference within easy reach of the city and yet far enough out into the countryside to allow people to focus on the conference. It is also within easy reach of many of the pyrometallurgical plants for those people who would like to participate in post-conference visits.

There is a particular significance to the choice of location, in that the Swartkrans area close to the Sterkfontein Caves is the site of the earliest evidence of the deliberate controlled use of fire by humans (about 1.3 million years ago), and this is obviously a necessary precursor to pyrometallurgy.

The area also lends itself to a very wide range of outdoor, social, and cultural activities to supplement the technical content of the programme. Activities such as hot air ballooning, game drives and cave exploring, will be built into the conference programme and should prove to be attractive to visitors.

The conference dates are from 5-8 March 2006, with optional social activities on the Sunday afternoon preceding the three-day conference. Post-conference plant visits will be arranged for those interested.

Of significance to South African participants who are registered professional engineers, is the fact that this conference will provide points towards the Continuing Professional Development that is required (as of 1 January 2006) to maintain registration with the Engineering Council of South Africa.

CONFERENCE VENUE

The conference will be held at Glenburn Lodge in the Cradle of Humankind World Heritage Site, about 40 km north-west of Johannesburg. Accommodation has been secured at the conference venue for a number of delegates. This will be made available on a first-come first-served basis.

The conference banquet is to be held at Maropeng, a brand-new development that was opened to the public in December 2005.

Wireless Internet access will be made available (at no additional charge) in the conference area, from about 6 am to 10 pm every day.
PROVISIONAL PROGRAMME

Please note that this provisional programme is subject to change. Some abstracts are available online.

Sunday 5 March 2006
17:00–18:30: Registration

Monday 6 March 2006
09:00: Welcome: W.H. van Niekerk, President: SAIMM
Keynote address: Sulfuric acid manufacture
Bill Davenport (University of Arizona, USA) and Matthew King (Hatch, Australia)

SESSION 1—Platinum Group Metals
Wetawela Smelter
Mortimer Smelter
Polokwane Smelter

SESSION 2—Platinum Group Metals
Impala Platinum
Val Coetzee (Impala Platinum, South Africa)
Spinel removal from PGM smelting furnaces
Arthur Barnes and Alan Newall (BCM Process Applications, South Africa)
Embedded measuring devices in copper coolers
Manfred Hopf (Saveway, Germany) and Eugene Rossouw (Thos Begbie, South Africa)
Lunch

SESSION 3—Education and Research
A Glimpse of Pyrometallurgy at Wits University
Humana Eric (University of the Witwatersrand, South Africa)
University of Pretoria
Chris Pistorius (University of Pretoria, South Africa)
A review of undergraduate teaching and postgraduate research in pyrometallurgy at the University of Stellenbosch
Jacques Eksteen (University of Stellenbosch, South Africa)
Pyrometallurgy at Mintek
Rodney Jones and Tom Curr (Mintek, South Africa)

SESSION 4a—Engineering Companies
Pneumatic injection of solids into pyrometallurgical processes—past, present and future
Jeremy Kirsch (Clyde Bergemann Africa, South Africa)
Pyromet
Bateman

SESSION 4b—Iran
Kinetics of Carbochlorination of Zirconium Dioxide
Ali Movahhedian, S Rayegan, and K Saberyan (Tehran University, Iran)
The characterization studies of Tabas coal for removal of organic and inorganic forms of sulphur
Esmaeil Jorjani, J Yperman, R Carleer, and H Jorjani (Azad University, Iran)
CAVE VISITS
Sterkfontein Caves
Wonder Cave
Dinner: Braaivleis

Tuesday 7 March 2006
05:45: Hot Air Balloon Safari at sunrise
09:00: SESSION 5—Ilmenite Smelting
Heavy Mineral Processing at Richards Bay Minerals
Gavin Williams (Richards Bay Minerals, South Africa)
Namakwa Sands Ilmenite Smelting
Errol Matthews and Mia Gous (Namakwa Sands, South Africa)
Ilimenite smelting at Ticor SA
Hanlie Kotze & Jandi Beukes (Ticor, South Africa) and Deon Bessinger (Kumba Resources R&D, South Africa)
SESSION 6—Base metals
Recent improvements at the BCL Smelter
David Keithshokile, M T Malema, and A C Legg (BCL, Botswana)
Bindura Nickel Corporation Smelter Operations
Evaristo Dzingayi and Batrai Manhandu (Bindura Nickel Corporation, Zimbabwe)
Transformation of the Palabora copper smelter from a captive smelter to a toll/custom smelter
Dennis Brazier, Willie Laing, and Dave Nixon (Palabora Mining Company, South Africa)
Phasing out Reverberatory Furnace Operations at KCM Nkana
Chris Cutler, Jacques Eksteen (University of Stellenbosch, South Africa) and Mohan Natarajan (KCM Nkana, Zambia)
Drying Technologies for Drying Copper Concentrates
Hannu Lehtonen (Kumera Corporation Technology Center, Finland)
Modelling of Nickel Oxide Reduction by Hydrogen from the B2O3-CaO-NiO Melt in Bubbled Layer
Andrey Dmitriev, A S Vusikhis, L I Leontiev, D Z Kudinov, and V A Sitnikov (Institute of Metalurgy of the Ural Branch of Russian Academy of Sciences, Russia)
Lunch

SESSION 7a—Zinc
An overview of the Zincor process
Jaco van Dyk (Zincor, South Africa)
SESSION 7b—Magnesium
Mintek Thermal Magnesium Process (MTMP)—Theoretical and Operational Aspects
Masud Abdel-latif (Mintek, South Africa)
Refining testwork on crude Magnesium produced in the Mintek Thermal Magnesium Process
Masud Abdel-latif (Mintek, South Africa)
SESSION 8—Engineering Companies
Hatch furnace technology
Lloyd Nelson (Hatch Africa, South Africa)
Metix—company profile
Pat Davies (Metix, South Africa)
Thermopower
18:00–22:00: Conference Dinner: Maropeng

Wednesday 8 March 2006
SESSION 9—Ferro-alloys
An overview of the history and current operational facilities of Samancor Chrome
Marius Visser (Samancor Chrome—Ferrometals, South Africa)
Xstrata Alloys
Willie Geriecke (Xstrata Alloys, South Africa)
Zimbabwe Alloys: The first fifty years of operation, challenges and opportunities
Jabulani Chiwasho, Dr Nyembe Shoko, and Munetsi Machikicho (Zimbabwe Alloys International, Zimbabwe)
Laboratory investigations of the electrical resistivity of cokes and smelting charge for optimizing operation in large ferrochrome furnaces
Helge Krogerus, Timo Lintumaa, and Petri Jokinen (Outokumpu Research Oy, Finland)
Graftech refractory linings for ferro-alloy furnaces
Colette Coetzee (Graftech, South Africa)
SESSION 10a—Steel
Iron and Steel making processes at Mittal Steel South Africa, Newcastle Works
Victor Scholtz, D S Magudulela, Francois van Zyl, A Coetzee, A Humpeal, C Hill, and Awie Potgieter (Mittal Steel—Newcastle, South Africa)
Practices and Design for Extending the Hearth life in the Mittal Steel Company Blast Furnaces
Karl Spaleck, Martiens Schoeman, and Warren Seegers (Mittal Steel—Newcastle, South Africa) and James Bobek, Wendell Carter, and Pinakin Chauhal (Mittal Steel Ipsantland, USA)
SESSION 10b—World Smelters
Virtual tour of some large smelters around the world
Quinn Reynolds (Mintek, South Africa)
Lunch
Plant Visit
Thursday 9 March 2006
Optional plant visits
HOW TO GET TO GLENBURN LODGE

From the Johannesburg International Airport
• Follow the N12 Johannesburg signs (heading towards Eastgate)
• Take the N3 North off ramp at the N12/N3 interchange. N3 will eventually become the N1.
Stay on the N1 South – Roodepoort
You will pass the following off ramps:
  Modderfontein
  Marlborough
  Woodmead
Johannesburg/Pretoria – N3/N1 Interchange
  Rivonia
  William Nicol
  Hans Strydom
Take the next off ramp – Beyers Naude – M5
• Turn right over the highway
• Keep straight on Beyers Naude through Honeydew
• Proceed over the N14 – Krugersdorp highway
• Keep straight on for 3 km and turn left into Kromdraai Road
• Proceed on Kromdraai road for 2 km and turn right into Glenburn Lodge

From Johannesburg / Sandton / Fourways (Approx. 40–45 min)
• Keep straight on Beyers Naude – M5 through Honeydew
• Proceed over the N14 – Krugersdorp highway
• Keep straight on for 3 km and turn left into Kromdraai Road
• Proceed on Kromdraai road for 2 km and turn right into Glenburn Lodge

From Pretoria (Approx. 35 – 40 min)
• Proceed on the N14 South towards Krugersdorp
• Go past the following off ramps:
  R55 – Sandton
  R511 – Sandton
  R512 – Randburg/Lanseria
• Take the next off ramp M5 – Randburg/Swartkops
• Turn right over the highway.
• Keep straight on for 3 km and turn left into Kromdraai Road
• Proceed on Kromdraai road for 2 km and turn right into Glenburn Lodge

From Krugersdorp (Approx. 30 min)
• Proceed north on the N14 – Pretoria/Krugersdorp Highway

Take the M5 – Randburg/Swartkops turnoff.
• At the top of the off ramp turn left.
• Keep straight on for 3 km and turn left into Kromdraai Road
• Proceed on Kromdraai road for 2 km and turn right into Glenburn Lodge

From Johannesburg South (Approx. 30 min)
• Follow the N1 North – Pretoria
• Take the M5 – Beyers Naude
• At the top of the off ramp turn left.
• Keep straight on Beyers Naude through Honeydew
• Proceed over the N14 – Krugersdorp highway
• Keep straight on for 3 km and turn left into Kromdraai Road
• Proceed on Kromdraai road for 2 km and turn right into Glenburn Lodge

SPONSORSHIP PACKAGES

There are a number of sponsorship opportunities available, which are listed below:

PACKAGE 1 — PATRON
R25 000 (R12 500 deposit)
• Exhibition space (3m x 2m).
• Two free registrations.
• Acknowledgement of sponsorship on all conference material and proceedings.
• Prominent display of company logos.

PACKAGE 2 — EXHIBITOR
R16 000 (R8 000 deposit)
• Exhibition space (3m x 2m).
• One free registration.
• Acknowledgement of sponsorship on all conference material and proceedings.

PACKAGE 3 — ADVERTISER
R6 000 (R3 000 deposit)
• Full page (A5 portrait) full-colour advertisement on the Delegates Handbook.
• Acknowledgement of sponsorship on all conference material and proceedings.
• Promotional material for delegates pack.

OTHER SPONSORSHIP
Specific events, such as the Conference Bags or the Banquet, or even hot-air ballooning, can also be sponsored. Sponsorship packages can be customized according to the specific requirements of the sponsor.

ALL PRICES EXCLUDE VAT

Companies wishing to sponsor or exhibit should contact the Conference Co-ordinator.

Conference Co-ordinator, Lara Winning, SAIMM · P.O. Box 61127, Marshalltown, 2107
Tel: +27 11 834 1273/7 · Fax: +27 11 838 5923 or 833 8156 · E-mail: lara@saimm.co.za · Website: http://www.pyrometallurgy.co.za/Pyro2006/