

# Platinum 2017 · Preliminary Programme · 18–19 October 2017

## Day 1: Wednesday - 18 October 2017

07:30–08:30	<b>Registration and early morning refreshments</b>
08:30–08:35	<b>Emergency and Safety Procedure</b>
08:35–08:45	<b>Welcome Address</b> R.T. Jones, <i>Conference Co-chairperson</i>
08:45–08:55	<b>Opening Address</b> S. Ndlovu, <i>SAIMM President</i>
08:55–09:35	<b>Keynote Address: How to make SA mining business globally attractive again?</b> F. Fourie, <i>Anglo Platinum</i>

09:35–10:00	<b>SAMMRI: Working towards sustainability of the South African mineral processing industry</b> V. Ross, C. O'Connor and J. Mann, <i>SAMMRI-The South African Minerals to Metals Research Institute c/o Centre for Minerals Research, South Africa, University of Cape Town, South Africa</i>
10:00–10:25	<b>Can research, development and innovation extend the life of the PGM mining industry?</b> S.M. Rupprecht, <i>University of Johannesburg</i>
10:25–10:35	<b>Sponsor Presentation: BME</b>
10:35–11:00	<b>Mid-Morning Refreshments</b>

	MINERAL PROCESSING	MINING
11:00–11:25	<b>Development of a reflux classifier circuit for chromite removal from a UG2 concentrator</b> C.J. Anderson*, C. Bergmann†, B. Davis‡, and D. Riley§, <i>*Hatch Africa, South Africa, †Mintek, South Africa, ‡Pilanesberg Platinum Mines, South Africa, §Sedibelo Platinum, South Africa</i>	<b>Mineral resource cut selection for PGE mineralization for Platinum Group Metals (PGE) deposits</b> K. Lomberg* and D. Hoffmann†, <i>*Pivot Mining Consultants, South Africa and †Lonmin Platinum, South Africa</i>
11:25–11:50	<b>Particle segregation associated with sub-sampling of feed at a typical UG2 concentrator</b> N. Naicker and V. Sibanda, <i>Anglo American Platinum, South Africa</i>	<b>The effect of mining height on the performance of timber elongates, in platinum mines South Africa</b> C. Banda and H. Yilmaz, <i>University of the Witwatersrand, South Africa</i>
11:50–12:15	<b>Milling circuit optimization study for Kroondal 1 Platinum Concentrator</b> N.S. Lameck*, J. Kirigin*, and J. Maphosa†, <i>*Multotec, South Africa and †Minopex, South Africa</i>	<b>LHD inhibiting factors in Southern African underground mines</b> P. Leeuw and N. Mkhwanazi, <i>The University of the Witwatersrand, South Africa</i>
12:15–12:40	<b>Grind circuit performance measured and controlled by real-time particle size measurement on individual cyclones</b> C. O'Keefe, <i>CIDRA Minerals Processing, USA</i>	<b>Introduction of the Atlas Copco Botec SL rope anchor machine</b> F. Fourie and P. Valicek, <i>Anglo American Platinum Ltd, South Africa</i>
12:40–13:35	<b>Lunch</b>	
	PYROMETALLURGY	MINING
13:35–14:00	<b>Furnace integrity monitoring using principal component analysis: An industrial case study</b> J.W.D. Groenewald*, L.R. Nelson*, R.J. Hundermark†, K. Phage*, R.L. Sakaran*, Q. van Rooyen*, and A. Cizek*, <i>*Anglo American Platinum Ltd, South Africa, and †Anglo American plc, South Africa</i>	<b>Management operating performance system the future to mechanization</b> S. Strydom, G.L. Smith, F. Fourie, P. Valicek, and G. Krafft, <i>Anglo American Platinum Limited, South Africa</i>
14:00–14:25	<b>The analysis and interpretation of fibre optic temperature data at the Polokwane Smelter</b> R.L. Sakaran, Q. van Rooyen, P.K. van Manen, and P.P. Mukumbe, <i>Anglo American Platinum Ltd, Anglo American plc, South Africa</i>	<b>A new electro hydraulic hand held rock drill tested by Anglo American NMT</b> F. Fourie, P. Valicek, and D. Baird, <i>Anglo American Platinum Limited, South Africa</i>
14:25–14:50	<b>Northam Platinum's new furnace</b> R.T. Jones* and J. Janse van Rensburg†, <i>*Mintek, South Africa and †Northam Platinum, South Africa</i>	<b>What does 'Modernization' mean for South African Mines?</b> P. Fraser, <i>Hydro Power Equipment (Pty) Ltd, South Africa</i>
14:50–15:15	<b>Afternoon Refreshments</b>	
15:15–15:40	<b>The ACP energy recovery plant: A Thermal Harvesting™ case study</b> J. Malan* and V.V. Harding†, <i>*Vuselela Energy, South Africa †EPS - Environmental and Process Solutions, South Africa</i>	<b>Narrow reef mechanized mining layout within Anglo American</b> F. Fourie, G.L. Smith, P. Valicek, and G. Krafft, <i>Anglo American Platinum Limited, South Africa</i>
15:40–16:05	<b>Understanding PGM furnaces better through computational modelling</b> N.J. Sweeten**†, B. van Beek‡, A. Lexmond*, and J.H. Zietsman**†, <i>*University of Pretoria, †Ex Mente and ‡Lonmin, South Africa</i>	<b>Practical application of Rockma Data in a production environment</b> P. Myeni and Z. Langa, <i>Anglo Platinum, South Africa</i>
16:05–16:30	<b>Computational modelling of the fluid flow through a PGM furnace matte tap-hole</b> Q.G. Reynolds and M.W. Erwee, <i>Mintek, South Africa</i>	
16:30–16:35	<b>Close of Day 1</b>	
19:00–22:00	<b>Conference Dinner</b>	

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## Day 2: Thursday - 19 October 2017

07:30–08:30 **Registration and early morning refreshments**

08:30–08:35 **Emergency and Safety Procedure**

08:35–08:45 **Welcome Address**  
R.T. Jones, *Conference Co-chairperson*

08:45–09:25 **Keynote Address: The road to lower emission**  
D. Jolie, *Anglo American*

09:25–10:05 **Keynote Address: The Platreef Project – A platinum mining game changer**  
G. Mouton, *Ivanplats*

10:05–10:15 **Sponsor Presentation, RHI AG**

10:15–10:25 **Sponsor Presentation, Sandvik**

10:25–10:50 **Mid-Morning Refreshments**

	HYDROMETALLURGY AND MINERALS PROCESSING	PLANNING
10:50–11:15	<b>Investigating the behaviour of PGEs during first stage leaching of a Ni-Fe-Cu-S converter matte</b> C.A. Snyders, G. Akdogan, G. Thompson, S.M. Bradshaw, and A.P. van Wyk, <i>Stellenbosch University, South Africa</i>	<b>Value based extraction decisions under challenging market conditions at Mogalakwena Platinum Complex</b> K. Mohanlal and P. Myeni, <i>Anglo American, South Africa</i>
11:15–11:40	<b>Optimization of precious metal recovery plants through the use of Metsim simulation models</b> A. Holtzapfel*, C. Morrison†, and M. Kretzinger†, * <i>Holtzapfel Consultoria em Tecnologia Ltda, Brazil</i> and † <i>Project Simulation Consultants, South Africa</i>	<b>Mine planning and its relevance to the SAMCODES</b> S.M. Rupprecht, <i>University of Johannesburg, South Africa</i>
11:40–12:05	<b>Making relevant sampling and assaying decisions: applications from Mogalakwena Mine</b> T. Muzondo and C. Govender, <i>Anglo Platinum, South Africa</i>	<b>Overview of SAMREC</b> K. Lomborg, <i>Pivot Mining Consultants, South Africa</i>
12:05–12:30	<b>Experience in the development of flowsheet options for BRPM's Styldrift resource</b> K. Selepe, <i>Mintek, South Africa</i>	<b>Overview of SAMVAL</b> K. Redman, <i>XBT Corporate Services SA (Pty) Ltd, South Africa</i>
12:30–13:30	<b>Lunch</b>	
13:30–13:55	<b>Enhanced flotation of platinum mineral fines through feed cavitation 'Bringing the mountain to Mohamed'</b> A. Singh, <i>Gold Ore (Pty) Ltd, South Africa</i>	<b>The future of design – Parametric mine design and its implications for mining agility</b> E. Strydom, <i>MineRP, South Africa</i>
13:55–14:20	<b>Thiol collectors blend for improved recovery in PGM Mining: Case study of a UG2 Ore</b> M.G. Moja*, I.O. Otunniyi*, W.A. Ngobeni†, and P. Mendonidis*, * <i>Vaal University of Technology, South Africa</i> and † <i>Senmin International (Pty) Ltd, South Africa</i>	<b>Grade improvement through multidisciplinary team synergies; A case study of Unki, Great Dyke of Zimbabwe</b> C. Mwatahwa, <i>Anglo Platinum, South Africa</i>
	<b>SUSTAINABILITY</b>	
14:20–14:45	<b>Incorporating the socio-cultural dimension into strategic long term planning in the South African minerals industry</b> G.L. Smith and L. Brooks, <i>Anglo American Platinum Limited, South Africa</i>	
14:45–15:10	<b>A practical methodology to use mineral residue facilities for water supply and contamination plume control at Mogalakwena Mine, South Africa</b> I. Mogatusi, <i>Anglo American, South Africa</i>	
15:10–15:35	<b>Benefits accruing to rural communities from the mining industry's corporate social responsibility projects in Moses Kotane Local Municipality of the North West Province</b> A. Bongwe, J. Francis, and G. Oloo, <i>University of Venda, South Africa</i>	
15:35–16:00	<b>Afternoon Refreshments</b>	
16:00–16:25	<b>Close of Conference</b>	

### Technical Tours:

#### Friday—20 October 2017

**Option 1** – Mogalakwena Platinum Mine (*Open Pit*) and Ivanplats (*Surface*)

**Option 2** – Twickenham Platinum Mine (*Underground*)

**Option 3** – Mototolo Platinum Mine (*Underground*)