Thursday: 9 June 2016

SESSION: STRATEGIES AND COMPETENCIES
Predictive asset optimization in the Cognitive Era
L. Schlebusch, IBM
Mechanization – what does it mean for the future miner?
F. Fourie and P. Valicek, Anglo Platinum
Lifting the lid on underground mining operations
A. Gardiner, Minetec
Mobile optimization – a practical solution
Z. van Zyl, Mining Consultancy Services (South Africa) Pty Ltd
A need for a material change in the South African Mining Industry
S.M. Rupprecht, University of Johannesburg
Role of technology in strategy and competitiveness
G. Malherbe, VCI Ltd
Modern mines: a collection of gadgets or a new mining system?
A.S. Macfarlane, Tomahsee
Riding the perfect storm facing the mining sector
N. Singh, CSIR
Moving to next generation mining systems: A Chamber perspective
A. Macfarlane, Tomahsee

SESSION: NEW MINING TECHNOLOGIES
Lowering the cost of new technology through standards
D. Vogt, CMMS, University of the Witwatersrand
Unlocking value by reordering the operational value chain through a pragmatic approach to modernisation
A. Fein, Sibanye Gold
Control Foam Injection: a new and innovative non-explosive rockbreakage mining technology to replace drilling and blasting in mining
R.G.B. Pickering, Rod Pickering & Associates, Dr Chapman Young, CFI Technologies

SESSION: SAFETY HEALTH AND PEOPLE
Innovation in managing water usage in the stope environment
S.M. Rupprecht, University of Johannesburg
Mobile safety inspection platform Mechatronics and Micro-manufacturing
N. Govender, CSIR
Adapting manufacturing philosophies to improve operational stability
M. Rautenbach, GEOVIA Global Marketing
Robotic miners required: Apply within
D. Naude, De Beers

Friday: 10 June 2016

SESSION: MINING
Coal recovery optimization in opencast pillar mining at Wolvekrans colliery, BMK pit
P.L. Ngwenyama, W. de Graaf W, and E. Preis, University of Pretoria
The use of ‘drones’ to conduct geotechnical mapping and characterisation of hardrock exposures in open-pit mines
C. Zermatten, SRK Consulting (Pty) Ltd
Innovative approach for monitoring and inspection of deep mine shafts
N. Benecke and M. Weber, DMT-Kai Batla (Pty) Ltd
Then, what next? Becoming excellent
T. Hattingh, University of the Witwatersrand

SESSION: MIS
Requirements elicitation interviews and applications for an underground Remote Piloted Aerial System
J. Green, A. Marnewick and J.H.C. Pretorius
Management operating performance system the future to mechanization
S. Strydom, P. Valicek, G. Krafft, and J. Sevenoaks, Anglo Platinum
From data to the appropriate action
G. Lane, D. Kok, K. Daya, R. Smith, and K. Ismail, NXGN

Visual information management, integrated across the mining value chain
M. Woodhall, MineRP

SESSION: DATA MANAGEMENT
How much is a rockpass scan worth?
H. Grobler and J. Green, University of Johannesburg
The thinking behind the Digital Mine
L. Möller, Hatch
Geotechnical logging using DMT’s ultra-slim borehole scanner
G. Torsten, S. Peters, and S. Naicker, DMT-Kai Batla Pty Ltd
Geotechnical numerical modelling as a risk management tool in mine planning process
A. Huckle, A. Studeny and C. Scior, DMT GmbH & Co. KG
Real-time geotechnical risk assessment in underground mining
M.J. Kanda

SESSION: SPECIFIC TECHNOLOGIES
Future trends in shaft development (Presentation)
D. Roos, Herrenknecht AG
Increased productivity and safety during tunnel rock reinforcement using mechanised installation of flexible high-tensile strength chain link mesh
B. Schoevaerts*, G. Fischer†, and R. Luis‡, *Geobrugg Southern Africa (Pty) Ltd, †Geobrugg Andina, SA (Chile), ‡Geobrugg AG (Switzerland)
Adapting oil & gas drilling techniques for the mining industry with dewatering well placement technology (DWPT)
A. Rowland, M. Bester, M. Boland, C. Cintolesi and J. Schlumberger, Water Services Kumba Iron OreSchlumberger Water Services (UK), Anglo American, Schlumberger Water Services (USA) Dowling

SESSION: RESILIENCE
Mining is a complex adaptive system and requires the dynamics of resilience as a basis for business strategy
J.M. Molthomogolo, Wesiwe
A revitalized & sustainable socio-economic model for South Africa’s mining communities
H.D. Darwish and E.P. Preis, North-West University, University of Pretoria
Resilience development in the new generation of production mining employees
A. Bukanga and P.J. Knottenbelt, University of Johannesburg

PARALLEL SESSION: (9 June 2016) METALLURGY
Case study - Upgrading ores at the ACACIA Bulyanhulu and Buzwagi mine sites using ore sorting technologies
N. Schoeman, Technical Advisor (Independent) and F. Shayo, Buzwagi
New approaches to old problems can dramatically improve the viability of operations
D.J. Robinson, J. Wu, and P.I. Fawell, University of Cape Town

Virtual prototyping of the Minfurn Carbon Regeneration Furnace
Q.G. Reynolds, Mintek, Randburg
An innovative development in coarse particle flotation and the impact on flowsheet design in base and precious metal plants
C. Naude, Erieb Flotation Division
auxi Lending a helping hand to improve metallurgical processes
J.H. Zietsman and C. Kok, Ex Mente (Pty) Ltd, University of Pretoria
Preliminary assessment of the comminution circuit of the Kambove Concentrator, Democratic Republic of Congo
F.K. Mulenga* and A.M.M. Mwashib†, *University of South Africa, †Générale des Carrières et des Mines (Gécamines)

A robust method for diamond recovery in open pit diamond mining using image processing techniques
K. Nqhoaki* and M. Ramone†, *University of Cape Town and †Letseng Diamonds mine
Commination – technology opportunities for expanding existing metallurgical plant capacity
E. Ford and C. Bergmann, Mail and Schueller GmbH & Co. KG
Design and structure optimization of a reconfigurable vibrating screen for mining and mineral processing industries
B. Ramatsese, K. Mpotu, O.A. Makinde C. Engelbrecht, and H. Campbell, Tshwane University of Technology and Vipro Pty Ltd