Final Programme-New technology and innovation in the Minerals Industry Colloquium

Thursday: 9 June 2016

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07:00-08:00	Registration and early morning refreshments
08:00-08:05	Safety Briefing
08:05-08:10	Welcome: A.S. Macfarlane, Conference Chair
08:10-08:20	Opening Address: R.T. Jones, President SAIMM
SESSION 1A:	STRATEGIES AND COMPETENCIES, D. Vogt
08:20-08:50	Keynote Address: E. Ritchken, <i>Mining Phakisa Secretariat</i>
08:50-09:10	Predictive asset optimization in the cognitive era
	G. Ralph, IBM South Africa
09:10–09:30	Mechanization – what does it mean for the future miner? F. Fourie and P. Valicek, <i>Anglo American Platinum</i>
09:30–09:50	Lifting the lid on underground mining operations A. Gardiner, <i>Minetec</i>
09:50–10:10	DEMO SESSION: From data to the appropriate action G. Lane, D. Kok, K. Daya, R. Smith, and K. Ismail, <i>NXGN</i>
10:10–10:30	Mid morning refreshments
10:30–11:00	Keynote Address: Innovation state of play in mining? A. Lane, Deloitte
11:00–11:20	The role of technology in strategy and competitiveness G. Malherbe, VCI Ltd
11:20–11:40	Modern mines : a collection of gadgets for a new mining system? A.S. Macfarlane, <i>Tomahee</i>
11:40–12:00	Riding the perfect storm facing the mining sector
40.00 40.00	N. Singh, CSIR
12:00–12:20	Moving to next generation mining systems : A Chamber perspective A.S. Macfarlane, <i>Tomahee</i>
12:20–12:40	Then, what next? Becoming excellent T.S. Hattingh, <i>University of the Witwatersrand</i>
12:40-13:10	Lunch
SESSION 2A: S	SAFETY, HEALTH AND PEOPLE, N. Singh
13:10–13:40	Keynote Address: Innovation: State of Play – Engaging the industry to understand social, technological and strategic innovation in mining G. Stanway, <i>Partner VCI</i>
13:40–14:00	Robotic miners required: apply within
14:00–14:20	D. Naude, <i>DeBeers</i> Innovation in managing water usage in the stope environment
14:20–14:40	S. Rupprecht, University of Johannesburg A mobile safety inspection platform for underground mining
14:40–15:00	N. Govender, P. Bosscha, and H. Swart, CSIR
	Adopting manufacturing philosophies to improve operational stability F. Walraven, <i>3DS</i>
15:00–15:10	Sponsorship Presentation - Cidra
15:10–15:20	Comfort break
SESSION 3A:	NEW MINING TECHNOLOGIES, F. Fourie
15:20–15:50	Keynote Address R. Howes
15:50–16:10	DEMO SESSION: Planning in the agile enterprise M. Woodhall, <i>MineRP</i>
16:10–16:30	Unlocking value by reorganizing the operational value chain through modernization A.G. Fenn, <i>Sibanye Gold</i>
16:30–16:50	Controlled foam injection: a new and innovative non-explosive rockbreaking technology to replace drilling and blasting in mining R. Pickering and C. Young, <i>Rod Pickering & Associates and CFI</i> <i>Technologies</i>
16:50–17:10	Adapting oil and gas drilling techniques for the mining industry with dewatering well placement technology A. Rowland*, M. Bester [†] , M. Boland [‡] , C. Cintolesi [#] , and J. Dowling [±] , *Schlumberger Water Services, [†] Kumba Iron Ore, [‡] Schlumberger Water Services (UK), [#] Anglo American (Chile), [±] Schlumberger Water Services (USA)
17:10–17:30	Fuel celllocomotive resultsin a production section P. Valicek, F. Fourie, and G. Lugg, <i>Anglo American</i>
17:30–17:35	Day 1 Conference Close: A.S. Macfarlane
17:30–17:35 17:35–19:30	Day 1 Conference Close: A.S. Macfarlane Networking Cocktail Function

SESSION1B	METALLURGY, C. Bergman
08:50–09:10	Upgrading ores at the ACACIA Bulyanhulu and Buzwagi mine sites using ore sorting technologies—case study N. Schoeman* and F. Shayo [†] , * <i>Technical Advisor (Independent and</i> [†] Buzwagi
09:10–09:30	New approaches to old problems can dramatically improve the viability of operations D.J. Robinson, R. Rajasingam, J. Wu, and P.D. Fawell, <i>CSIRO Mineral Resources, Austdralia</i>
09:30–09:50	Virtual prototyping of the Minfurn carbon regeneration furnace Q.G. Reynolds, <i>Mintek</i>
09:50–10:10	DEMO SESSION: From data to the appropriate action (Plenary 1) G. Lane, D. Kok, K. Daya, R. Smith, and K. Ismail, <i>NXGN</i>
10:10-10:30	Mid afternoon refreshments
10:30–11:00	Keynote Address: Innovation state of play in mining? (Plenary 1) A. Lane, Deloitte
11:00–11:20	auxi Lending a helping hand to improve metallurgical processes J.H. Zietsman and C. Kok, Ex Mente (Pty) Ltd and University of Pretoria
11:20–11:40	Preliminary assessment of the comminution circuit of the Kambove, Democratic Republic of Congo F.K. Mulenga* and A.M.M. Mwashib [†] , *University of South Africa and [†] Générale des Carrières et des Mines (Gécamines)
11:40–12:00	An innovative development in coarse particle flotation and the impact on flowsheet design in base and precious metal plants C. Naude, <i>Solo Resources</i>
12:00–12:20	Design and structure optimization of a reconfigurable vibrating screen for the mining and mineral processing industries B. Ramatsetse*, R. Boitumelo*, O. Makinde*, K. Mpofu*, H. Campbell*, and †C. Engelbrecht, *Tshwane University of Technology and †Vipro Vibrating Products Pty Ltd
12:40-13:10	Lunch
13:10–13:40	Keynote Address: Innovation: State of Play—engaging the industry to understand social, technological and strategic innovation in mining (Plenary 2A) G. Stanway, P. Mahoney, and C. Griebel, <i>Partner VCI</i>
SESSION 2B	RESILIENCE, E. Preis
13:40–14:00	Keynote Address: Important considerations in building a resilient mining industry in Africa (Plenary 2A) L.R. Smart, <i>University of Pretoria</i>
14:00–14:20	Instigation of a revitalized and sustainable socio-economic model for South Africa's mining communities H.D. Darwish* and E.P. Preis [†] , *North-West University and [†] University of Pretoria
14:20–14:40	Resilience development in the new generation of production mining employees A. Bukanga and P. Knottenbelt, and L. van Heusden, <i>University of</i> <i>Johannesburg and Norkem Park Primary School</i>

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Friday: 10	0 June 2016	11:40–11:50	Sponsorship Presentation - New Concept Mining
07:00–08:00	07:00–08:00 Registration and early morning refreshments		Lunch
08:00–08:05	Emergency procedures	SESSION 6:	DATA MANAGEMENT, L. Simpson
08:05–08:10	Welcome A.S. Macfarlane, <i>Conference Chairman</i>	12:40–13:00	How much is a rockpass scan worth? H. Grobler and J. Green, <i>University of Johannesburg</i>
SESSION 4:	MINING, G. Lane	13:00–13:20	The digital mine — mining in the clouds L. Möller, Hatch
08:10–08:40	Keynote: Innovation in narrow tabular hard rock mining – successes and challenges G.L. Smith, Anglo Platinum	13:20–13:40	Geotechnical logging using DMT's ultra-slim borehole scanner T. Gorka*, S. Peters*, and S. Naicker [†] , *DMT GmbH and Co.Kg and
08:40–09:00	Coal recovery optimization in opencast pillar mining at		[†] DMT-Kai Batla Pty Ltd
	Wolvekrans colliery, BMK pit L.P. Ngwenyama, W.W. de Graaf and E. Preis, <i>University of Pretoria</i>	13:40–13:50	Sponsorship Presentation - Minetec
09:00–09:20	Applications and requirements for Underground Remote Piloted Aerial system	13:50–14:10	DEMO SESSION: A complete solution for all your mining and processing requirements D. Denton, <i>Resolve Immix</i>
	J. Green, A. Marnewick, and J.H.C. Pretorius, University of Johannesburg	14:10–14:30	Mid afternoon refreshments
09:20–09:40	Innovative approach for monitoring and inspection of deep	SESSION 7:	SPECIFIC TECHNOLOGIES, M. Woodhall
	mineshafts N. Benecke and M. Weber, <i>DMT GmbH & Co. KG</i>	14:30-14:40	Sponsorship Presentation - AARD Mining Equipment
09:40–09:50	Sponsorship Presentation - Geobrugg	14:40–15:00	Future trends in shaft development D. Roos, <i>Herrenknecht AG</i>
09:50–10:10	DEMO SESSION: IOT.Nxt, N. Steyn and J. Malherbe, Axizworkgroup	15:00-15:20	Mechanized installation of flexible high-tensile strength chain-link mesh for increased productivity and safety during tunnel rock reinforcement B. Schoevarts*, F. Germán [†] , and L. Roberto [‡] , *Geobrugg Southern Africa (Pty) Ltd, [†] Geobrugg Andina, SA (Chile), and [‡] Geobrugg AG (Switzerland)
10:10–10:30	Mid morning refreshments		
SESSION 5:	MANAGEMENT INFORMATION SYSTEMS, G. Malherbe		
10:30–11:00	Keynote Address: P. Turner, <i>Sibanye Gold</i>		
11:00–11:20	Management operating performance system the future to		A need for a material change in the South African mining industry S.M. Rupprecht, <i>University of Johannesburg</i>
	mechanization S. Strydom, F. Fourie, P. Valicek, G. Krafft, and J. Sevenoaks, Anglo Platinum	15:40–16:00	Conference Close A.S. Macfarlane
11:20–11:40	Visual information management, integrated across the mining value chain M. Woodhall and E. Strydom, <i>MineRP</i>		