Smart Mining, Smart Environment, Smart Society Conference

4-5 July 2019

Accolades Boutique Venue, Midrand

Preliminary Programme

Day 1 — Thursday 4 July 2019		Day 2 — Friday 5 July 2019		
07:30-08:30	Registration & Morning Refreshments	07:30-08:30	Registration & Morning Refreshments	
08:30-08:35	Emergency Procedures Presentation	08:30-08:35	Emergency Procedures Presentation	
08:35-08:50	Welcome Address	08:35–08:50	Welcome Address	
	D. Limpitlaw, Conference Chairperson		D. Limpitlaw, Conference Chairperson	
08:50–09:05	SAIMM Presidential Address A.S. Macfarlane, Mandela Mining Precinct	Session 4 — of offsets Chairperson	Mining and poverty – increasing importance	
Session 1 — Industry 4.0 and the creativity imperative – driving environmental Performance		08:50–09:15	Mining and processing of ornamental stones in context of job creation in rural South Africa	
Chairperson			E.Y. Fontama and A.F. Mulaba, University of Johannesburg,	
09:05–09:30	@ The Verge		South Africa	
00.00 00.55	J. Courtnage, Deliberate Futures, South Africa	09:15–09:40	Is successful resettlement possible with such divergent lender, private sector and community demands and expectations? A. Hart, Sustainable Futures (Pty) Ltd, South Africa	
09:30–09:55	Current requirements for the future- and smart- connected mine JJ. Verhaeghe, Mandela Mining Precinct, South Africa			
09:55–10:20	Middelburg: How not to be the next Welkom? Embrace	09:40-10:10	The role of innovation in the conversion of Invasive Alie	
00.00-10.20	the 4th Industrial Revolution J. Limpitlaw and C. Mallinson, <i>University of the</i>	00.10	Plant biomass into products for rehabilitating mining land while restoring livelihoods	
	Witwatersrand, South Africa		G. Barnes, Department of Environmental Affairs, South Afric	
10:20–10:45	Mining-impacted water as a valuable resource:	10:10–10:40	Mid-morning Refreshments	
	technologies for values recovery J. Burgess, Isle Utilities, South Africa	Session 5 — driver, not a d	Social and environmental performance as a value cost centre	
10:45–11:15	Mid-morning Refreshments	10:40-11:05	Community development agreement and its applicability	
Session 2 —	Modernizing the minerals sector to embrace values,		to Finnish Mining Context	
people and the environment (WEF Theme) without sacrificing		11.05 11.20	J.M. Kotilainen, <i>University of Eastern Finland</i> , <i>Finland</i>	
efficiency and production		11:05–11:30	Importance of competent assessment of and reporting on socio- environmental liability	
Chairperson			T. Steele-Schober, Uvuna Sustainability, South Africa	
11:15–11:40	Economic Complexity and Succession Planning in the SA Mining industry M. Solomon, University of Cape Town, South Africa	11:30–11:55	Development of the Socio-Economic Technology Initiative (SETI) platform to create a commonly rec-	
11:40–12:05			ognised evidence base that can be used as a basis for	
11.40-12.03	The fit and misfit between Mining 4.0 and Sustainable Development		better development planning T. Cooper, Mining Dialogues 360, South Africa	
	M. Hermanus, <i>University of the Witwatersrand</i> ,	11:55–12:20	Investigate the leadership capabilities that will drive	
	South Africa	11.00 12.20	modernization of the coal mining sector through the	
12:05–12:30	Mining at the crossroads: Sectoral diversification to		fourth industrial revolution	
	safeguard sustainable mining?		J. Venter, Exxaro, South Africa	
	W. de Lange ¹ , B. de Wet ¹ , L. Haywood ¹ , W. Stafford ¹ , C. Musvoto ¹ , and I. Watson ² , ¹ CSIR, ² University of the	12:20–13:20	Lunch	
10.20 12.20	Witwatersrand, South Africa	Session 6 — Chairperson		
12:30–13:30	Lunch	13:20-13:45	Mining without biodiversity loss The Biodiversity	
Session 3 —			Protocol	
Chairperson		40.4E 44.4E	J. Houdet, Biodiversity Disclosure Project, South Africa	
13:30–15:30	Panel Discussions 1 — Social Challenges Facilitator P. Kapelus, South Africa	13:45–14:15 14:15–16:00	Afternoon Refreshments Panel Discussion 2 — Environmental Challenges	
15:30–15:35	Closing Remarks	17.10 10.00	Moderator	
	_		J. Courtnage	
15:35–16:30	Network Refreshments	16:00-16:05	Conference Closure	