Geometallurgy Conference • 6-8 August 2018—Preliminary Programme Lagoon Beach Conference Venue, Cape Town South Africa

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Monday, 6 August 2018	Session 4–Session Chair:
	15:45–16:05 Using mineralogy for early stage Geometallurgical domain
Workshop 08:30–17:00 Practical Geometallurgy Workshop: An interactive	definition: a case study of the Swartberg polymetallic
workshop on ore to metals optimization that demonstrates	sulphide deposit
the application of Geometallurgy	H.J.J. Gordon ¹ , J.A. Miller ² , and M. Becker ³ , ¹ Black Mountain Mining (Pty) Ltd, ² Stellenbosch University, ³ University of
Day 1 – Tuesday, 7 August 2018	Cape Town, South Africa
07:30–08:30 Early Morning Refreshments and Registration	16:05–16:25 Current Geometallurgical initiatives at the Siguiri Gold
08:30–08:35 Chairperson's Welcome Address	Mine, Guinea L.M. Cloete¹ and ²W. Slabbert, ¹ <i>AnglogoldAshanti COO</i>
M. Becker, University of Cape Town, South Africa	International South Africa, ² AnglogoldAshanti Siguiri,
08:35–08:40 Emergency procedures presentation 08:40–08:55 SAIMM Presidential Opening Address	Guinea
S. Ndlovu, <i>President, SAIMM</i>	16:25–16:45 Continuous improvement of Geometallurgy Namakwa
Session 1–Session Chair:	Sands mine K.D. Tshivhase and C. Philander , <i>Namakwa Sands,</i>
08:55–09:35 Keynote Address: Geometallurgy: Back to the Future –	South Africa
pushing the time space boundary	16:45–17:00 Day 1 Conference Close 19:00–22:00 Conference Network Function
A. Clark, University of Queensland, Australia 09:35–09:55 Geometallurgy and Automated Mineralogy – A tool for ore	
deposit evaluations, for the prediction of processing	Day 2 – Wednesday, 6 August 2016
problems and process improvements ahead and during	08:00-08:30 Early Morning Refreshments and Registration 08:30-08:45 Chairperson's Welcome Address
mining	M. Becker, University of Cape Town, South Africa
T. Wallmach and M. Rousseau, <i>ERAMET Ideas, Trappes,</i> France	08:45–08:55 Emergency procedures presentation
09:55–10:15 A particle–based approach to flotation modelling	Session 1–Session Chair:
incorporating autoSEM characterization	08:55–09:35 Keynote Address: The Geometallurgy of Namakwa Sands –
C.P. Bergmann¹ and N. Naudé², ¹ <i>Mintek</i> , ² <i>University of</i> Pretoria, South Africa	A decade of contributions and learnings C. Philander, Namakwa Sands, South Africa
10:15–10:45 Mid–Morning Refreshments	09:35–09:55 Mineralization processes – the primary control on gold
Session 2–Sessions Chair:	recovery
10:45–11:25 Keynote Address: Discovery of the deep Flatreef PGE–Ni–	K.L. Youlton ¹ , J.A. Kinnaird ¹ , and B.J. Youlton ^{1,2} , ¹ University of the Witwatersrand, ² SGS MetMin, South Africa
Cu–Au deposit on Turfspruit Farm, Northern Limb, Bushveld	09:55–10:15 Mineral chemistry as a critical parameter in
Complex, South Africa S. Kekana, <i>Ivanplats, South Africa</i>	Geometallurgical models: a case study using trace
11:25–11:45 Sequential co–simulation for resources modelling: How	elements substituted sphalerite L. Babedi, B.P. von der Heyden, P.H. Neethling, and
good is the reproduction of the joint spatial correlation	M. Tadie, Stellenbosch University, South Africa
structure?	10:15–10:45 Mid–Morning Refreshments
N. Madani¹ and X. Emery², ¹School of Mining and Geosciences, Kazakhstan, ²University of Chile, Chile	Session 2–Sessions Chair:
11:45–12:05 Embracing step–changes in geoscientific information for	10:45–11:25 Keynote Address: Geomet and the Mining Value Chain: where is the value to the miner?
effective implementation of Geometallurgy	A.S. Macfarlane, Minerals Council South Africa
R. Lechuti–Tlhalerwa¹, S. Coward², and M. Field³, ¹Debswana, Botswana, ²Wood Group, Australia, ³Interlaced,	11:25–11:45 Investigating Geometallurgical relationships with principal
United Kingdom	component analysis of compositional and non- compositional data
12:05–12.25 Prediction of copper recovery from Geometallurgical data	M. Bhuiyani and K. Esmaeli, <i>University of Toronto, Canada</i>
using D–vine copulas	11:45–12:05 Uncertainty quantification of rock quality designation at
E. Addo Jnr¹, A.V. Metcalfe¹, E.K. Chanda¹, E. Sepulveda⁴, W. Assibey–Bonsu², and A. Adeli³, ¹University of Adelaide,	the Gazestan Ore Deposit N. Madani, S. Yagiz, A.C. Adoko, and N. Battalgazy,
Australia, ² Gold Fields Limited, South Africa, ³ University of	Nazarbayev University, Kazakhstan
Chile, ⁴ University of Talca, Chile	12.05–12:25 Key aspects of bench flotation as Geometallurgical
12:25–13:30 Lunch	characterization tool V. Ross, <i>Mintek, South Africa</i>
Session 3–Session Chair:	12:25–13:30 Lunch
13:30–14:10 Keynote Address: TBC 14:10–14:30 Role of real time elemental analysis using PGNAA in	Session 3–Session Chair:
operational Geometallurgy	13:30–13:50 Geometallurgical sample and test work protocol
H. Kurth, Scantech International Pty Ltd, Australia	implementation at Kumba Iron Ore, M. Govender, <i>Kumba Iron Ore, South Africa</i>
14:30–14:50 Developing a 3D mineral texture quantification method of drill core for Geometallurgy	13:50–14:10 Geometallurgical characterization of complex copper–gold
M.J. Voigt ^{1,2} , J. Miller ³ , L. Bbosa ¹ , R.A. Govender ¹ ,	ores
D. Bradshaw ¹ , A. Mainza ¹ , and M. Becker ¹ , ¹ University of	J. Liipo, M. Hicks, V–P. Takalo, A. Remes, and M. Talikka, Outotec, Finland
Cape Town, ² Council for Geoscience, ³ Stellenbosch	14:10–14:30 Modelling Geometallurgical variability of communition
University, South Africa	parameters in Orapa kimberlite ore

14:50-15:10 Hyperspectral data applied to Geometallurgy

South Africa

15:10–15:45 Afternoon Refreshments

P. Linton, D. Browning, N. Pendock, P. Harris,

M. Donze, T. Mxinwa, and K. Mushiana, TerraCore,

³Wood plc, United Kingdom

15:25–16:00 Closing Network Function

14:30–15:25 Panel discussion: Geometallurgy–What Next!

R. Lechuti–Tlhalerwa¹, O. Gilika², and M. Field³, ¹Debswana

Corporate Centre, ²Debswana Orapa Mine, Botswana,