

Geometallurgy Conference 2025

Future-Ready Geometallurgy: Trusted Data, Advanced Tools, Smarter Decisions

13 October 2025 **Technical Workshops**

14-15 October 2025 **Conference**

16 October 2025 **Technical Visits**

Venue: Glenburn Lodge and Spa, Muldersdrift

(1-hour drive from O.R. Tambo International Airport,
Johannesburg, South Africa)

ECSA and SACNASP Validated CPD
ActivityCredits = 0.1 per hour attended



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ABSTRACTS RECEIVED

What's the problem, Doc? Diagnosing rock knowledge in a decision-first world

W. Ware, *Datarock, Australia*

Reducing processing and cost risks for new processing plants through effective design simulation

S.K. Edwards¹, N.C. Steenkamp², ¹SKEmet Pty Ltd, ²GeoScience Professional, South Africa

Mineralogy as a predictor of comminution behavior for Merensky Reef low-grade ores

V. Notole¹, G.T. Nwaila¹, M. Safari², S. Ndlovu^{1,3}, ¹University of the Witwatersrand, ²Mintek, South Africa, ³The University of Arizona, USA

Differentiation of iron oxides using modern automated scanning electron microscopy

K. Youlton, *SGS, South Africa*

Geometallurgy in the Kalahari Copper Belt, Ngami District Botswana

J.K. Mangwiro, *Fluor, South Africa*

The role of mineralogy in geometallurgy

M. Becker, *University of Cape Town, South Africa*

Data-driven delineation of geometallurgical domains in porphyry copper systems

T. Mombe¹, G.T. Nwaila¹, ¹University of the Witwatersrand, South Africa

Upgrading of low-grade manganese ores by hydrogen-rich reduction for the ferroalloy industry

D.A. Barrett, *Stellenbosch University, South Africa*

Is it time to rethink gold tailings characterization using real time portable and automated characterisation technologies?

X.C. Simelane¹, S. Ndlovu^{1,2}, G.T. Nwaila¹, ¹University of the Witwatersrand, ²University of Arizona, South Africa

Linking mineralogy to comminution behaviour in the Kalahari Manganese field

M. Tadie, B. von der Heyden, P. Mathebula, L. van Eeden, *Stellenbosch University, South Africa*

Hydrometallurgical pretreatments for the enhancement of magnetic separation of ferruginous manganese tailing

E. Olivier, *Stellenbosch University, South Africa*

Exploration of complex tin mineralization in the Lebowa granites and implications for extraction

L.S. Mokhahlane, *University of Witwatersrand, South Africa*

Maximizing throughput of ore characterization by means of automated mineralogy

M. Dosbaba, *TESCAN, Czech Republic*

Communicating uncertainty in geometallurgical models

A. Johnston, *T/ransmin Metallurgical Consultants, UK*

Assessing lateral variability in ore hardness and geochemistry at the Namakwa Sands deposit

S. Mgoduka, A. van der Westhuizen, M. Becker, *University of Cape Town, South Africa*

Are variational gaussian processes the missing link in predictive geometallurgy?

G.T. Nwaila¹, Í.G. Gonçalves², ¹University of the Witwatersrand, South Africa, ²Federal University of Pampa, Brazil

Understanding the economic importance and scientific significance of oceanic Fe-Mn crusts

A. Menzies¹, P. Josso², ¹Bruker Nano Analytics GmbH, ²British Geological Survey, UK

Geometallurgy program at Newmont's Peñasquito Polymetallic Mine

J.E. Villanueva, *Newmont Corporation, USA*

Evaluating the impact of lithological variation on comminution behaviour: a case study from the Northern Limb of the Bushveld Complex

R. Moeletsi, C. Lekgoro, D. Chetty, *Mintek, South Africa*

Developing an integrated environmental geochemical assessment and valorisation framework for the sustainable management of mine tailings in Southern Africa coatings

B.M. May^{1,2}, K. Thobejane³, L. Ochieng⁴, M. Tadie¹, B. von der Heyden¹, ¹African Rainbow Minerals

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