

6th August 2018—Technical Workshop • 7-8th August 2018—Conference
Lagoon Beach Conference Venue, Cape Town, South Africa



BACKGROUND

The theme of this first geometallurgy conference '**Back to the future**' is inspired by looking both into the past and the future: the concept of Geometallurgy goes back to some of the earliest mining activities when mineral recognition, mining, separation and concentration were undertaken simultaneously. Over time, changes in operational structures, product expansion and specialisation ultimately led to the diminishment and breakdown of this holistic approach.

In the last two decades 'Geometallurgy' has become a sophisticated yet entirely logical return to this integrated approach to mine planning. In a world of exponentially increasing ore heterogeneity and economic complexity, Geometallurgy is effectively a highly structured, integrated multi-disciplinary collaboration for optimising the value of an ore deposit. The approach is premised on acquiring multi-dimensional, spatially constrained (blocked) ore body knowledge that quantifies and qualifies all aspects of ore body variability. This data must include each element's response to blasting, excavation, crushing, grinding, separability and the environment and of course, its economic factors. These discrete elemental data sets are modelled to optimise a mine plan which takes into account the respective threshold criteria for each of the dataset components. Geometallurgy provides for truly integrated mine planning, ore flow management and processing from exploration to operations and through to final closure and rehabilitation. (Think of it as 4D Whittle on steroids, but for the entire mine life cycle, not just the optimised pit or stope envelope for the mining operation).

Looking into the future, we need to visualise what our 'ideal' mining operation in Southern Africa should look like, how it will function, and be equipped to articulate what we need to do to achieve this. Geometallurgy is a critical tool in achieving this.

KEYNOTES

Prof. Alice Clark
*Director of Production Centres, SMI-BRC & SMI-JKMRC,
University of Queensland, Australia*

Sello Kekana
*Head of Technical Training and Development, Ivanhoe
Mines*

Alistair Macfarlane, *Chamber of Mines*

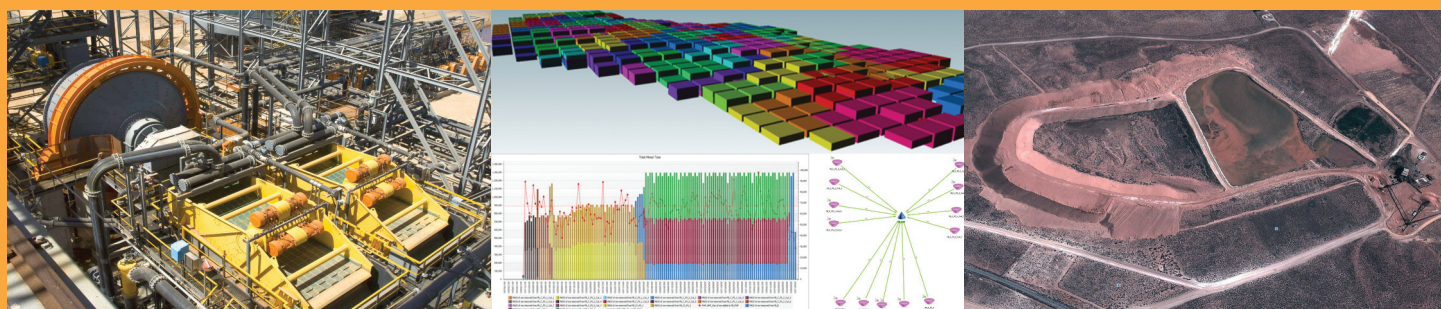
Matt Mullins
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Sponsors



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Conference Announcement & Call for Papers

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CONFERENCE Themes

- Sampling and core logging
- Practical tools and methodologies for ore characterisation and testing
- Incorporation of predictive mining, processing and environmental models into the resource model
- Modelling and geostatistics
- Mining optimisation after whittle – the role of geometallurgy
- Strategic (project) and tactical (operational) geometallurgy
- Case studies
- Sustainability and the environment

EXPRESSIONS OF INTEREST AND CALL FOR PAPERS

Prospective authors are invited to submit papers for this conference.

Please email papers and requests to be added to the conference mailing list to Camielah Jardine: Head of Conferencing, SAIMM at camielah@saimm.co.za.

KEY DATES

16 April 2018	Submission of Conference Papers
14 June 2018	Peer review process to be completed
6–8 August 2018	Conference

The Southern African Institute of Mining and Metallurgy

Head of Conferencing, Camielah Jardine

GEOMETALLURGY CONFERENCE 2018

P.O. Box 61127, Marshalltown, 2107, Tel: +27 11 834-1273/7

THE DETAILS OF THIS FORM CAN BE E-MAILED TO: camielah@saimm.co.za or FAXED TO: +27 11 838-5923 / 833-8156

- ☐ I am interested in attending the conference
- ☐ I am interested in receiving sponsorship/exhibition information
- ☐ I intend to submit an abstract for a proposed paper/presentation entitled:

Title of paper:

Personal Details: Name:

Company: Designation:

Address:

Tel:

E-mail: