

# THE DANIE KRIGE GEOSTATISTICAL CONFERENCE

*GEOSTATISTICAL GEOVALUE —REWARDS AND RETURNS FOR SPATIAL MODELLING*

**Johannesburg • 19–20 August 2015**

## THEME

The theme of the conference is 'Geostatistical Geovalue—Rewards and Returns for Spatial Modelling', a theme which emphasizes the improvement in, or addition to, value that spatial modelling can bring to the process of mine evaluation and mineral resource and reserve estimation. Spatial modelling of earth related data to estimate or enhance attributed value is the principle domain of geostatistics, the broad content of the Danie Krige Commemorative Volumes, and the focus of this conference.

## OBJECTIVES

The conference provides authors who have recently published papers in the SAIMM's Danie Krige Commemorative Volumes, a platform to present their research. In addition an invitation to geostatisticians, resource estimation practitioners, and those with an interest in geostatistics to present new papers for inclusion in the proceedings is now open. The conference will explore advances in technology and methodologies, and case studies demonstrating the application of geostatistics. It will cross the commodity boundaries, with applications presented from precious to base metals, and diamonds. This is a valuable opportunity to be involved in constructive dialogue and debate, and to keep abreast with the best practice in this specialist field.

## WHO SHOULD ATTEND

The conference provides a platform for:

- local and international geostatisticians
- geologists
- engineers
- researchers
- software vendors
- mineral resource managers and practitioners, across the mining industry
- consultancy and academia, to present their work and contribute to the advancement of this field.



**SAIMM**  
THE SOUTHERN AFRICAN INSTITUTE  
OF MINING AND METALLURGY

### For further information contact:

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## BACKGROUND

Geostatistics constitutes a globally accepted technical approach to mineral resource-reserve estimation and the basic toolkit for mine evaluation practitioners. Following the call for papers and the publication of the Danie Krige Commemorative Volumes, the SAIMM invites submission of papers for the Danie Krige Geostatistical Conference to be held in Johannesburg, South Africa, 19–20 August 2015.

## CONFERENCE SUPPORTER

**AGASA**  
Geostatistical Association of Southern Africa  
Furthering Geostatistics  
[www.gasa.org.za](http://www.gasa.org.za)

## EXHIBITION/SPONSORSHIP

Sponsorship opportunities are available. Companies wishing to sponsor or exhibit should contact the Conference co-ordinator.

*First Announcement & Call for Papers*

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## Call for Papers

### TOPICS

- Optimisation of mineral resource estimates, communicating confidence in Mineral Resource and Mineral Reserve estimates, and Mineral Resource Classification, use of localised direct conditioning estimates for resource
- Performance of kriging estimates, kriging indicators and non-linear geostatistics, algorithmic smoothing of kriged estimates, factorial kriging for multiscale modelling, optimal kriging variance estimation
- Multivariate uniform conditioning for mineral resource modeling, multivariate block simulation and post-processing
- Methods, application and optimisation of Localised Uniform Conditioning estimates
- Discrete Gaussian change of support models
- Genetic algorithms and scenario reduction
- Variography, simulated annealing, sampling and depositional structures
- Long-tailed distributions
- Geological ore body modelling
- Integration of radiometric data and soil geochemistry using Bayesian updating
- Gold reef evaluation
- Dispersion variance, simulation, and blending piles

- Medical geography, mathematical geology and medical geology
- Modelling of petroleum reservoirs
- Design of RC drilling grids for short term planning

### CALL FOR PAPERS

Prospective authors are invited to submit titles and abstracts of their papers, in English. The abstracts should be no longer than 500 words and should be submitted to:

Yolanda Ramokgadi  
Conference Co-ordinator, SAIMM  
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Telephonic enquiries may be made at  
Tel: +27 (11) 834-1273/7  
Facsimile +27 (11) 838-5923 or  
E-mail: yolanda@saimm.co.za

### KEY DATES

23 January 2015	Submission of abstracts
2 February 2015	Acceptance of abstracts
2 March 2015	Submission of papers
19–20 August 2015	Conference



### The Southern African Institute of Mining and Metallurgy

Conference Co-ordinator, Yolanda Ramokgadi

### Danie Krige Geostatistical Conference

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

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

- I am interested in attending the Conference
- I may be interested in participating in a technical visit
- I intend to submit an abstract of the proposed paper entitled:

Title of paper: .....

Personal details: Name .....

Address .....

Tel: ..... Fax: .....

E-mail: .....