

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 Validated CPD Activity,
Credits = 0.1 points per hour attended.**



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Data Science for Geometallurgy:

Monday, 13 October 2025 | Time: 08:30-16:30

WORKSHOP OVERVIEW:

This full-day workshop provides a practical introduction to data science and machine learning for professionals working in geometallurgy, mine geology, and process optimisation. The content has been tailored specifically for geomet applications—where understanding rock behaviour, variability, and value is critical.

Participants will gain clarity on core ML concepts and how they apply to real geoscientific and metallurgical data. The course will highlight opportunities to improve domaining, prediction, and decision-making using tools such as core imagery, geochemistry, and spectral data.

Whether you are managing teams, guiding investment, or exploring new workflows, this workshop will help you engage confidently with data-driven geomet applications.

LEARNING OUTCOMES:

Participants will:

- Understand the fundamentals of ML in mining
- Identify appropriate use cases for predictive modelling in geomet
- Evaluate data readiness and model usability
- See how sensor-derived and geological data can be used to create geomet models
- Build confidence engaging with internal and external data science teams

CONTENT:

- Introduction to Data Science in Geomet
- Core Concepts of Machine Learning (models, algorithms, testing, bias, metrics)
- What is Geometallurgy today, and how is it changing?
- Implementing ML in Mining Case Studies: 10 Years of Lessons
- Practical: Building a Geomet Classification Model

About the Instructor



Brenton Crawford is Chief Geoscientist at Datarock, where he leads the development of applied machine learning and computer vision tools for the mining industry. He co-founded both Datarock and Solve Geosolutions, bringing together geoscience, data

science to drive smarter exploration and resource definition. With experience spanning structural geology, geophysics, and mineral systems, Brenton offers a rare blend of domain expertise and technical fluency in applied data science.

Wendy Ware is a Principal Geometallurgist at Datarock, where she helps clients build integrated geomet workflows that turn rock data into strategic advantage. With 20+ years in mining, she has led multidisciplinary teams



across diverse commodities and geographies. Her focus is on systems thinking, workflow design, and aligning data with decisions—from exploration through to closure. Wendy champions modernising geomet to meet the speed and complexity of today's mining landscape.

REGISTER HERE

Registration Fees:

Member - R4 500

Non-Member - R5 500

Students: R1 000

FOR FURTHER INFORMATION CONTACT:

Gugu Charlie, Conferences and Events Coordinator

E-mail: gugu@saimm.co.za | Tel: +27 11 538-0238 | Web: www.saimm.co.za