

Geometallurgical Practices for the Mining Industry 14th – 15th March 2024 Indaba Hotel Johannesburg & Live Webinar

Overview

The aim of the skills development intervention is to equip role players and decision makers in the in the Geometallurgical and related functions sectors with knowledge of the current geometallurgical practices. The focus of the sessions is on the design, implementation and management of geometallurgical programs along with the relevant safety and risk considerations. Collaborate, exchange ideas, and build valuable connections with peers and experts that will extend beyond the duration of the course.

Course Guidelines

Traditional mining approaches often fall short in maximizing the value of ore deposits. Geometallurgy offers a holistic and integrated solution, allowing you to optimize resource utilization and extract every ounce of precious minerals from complex ores. Geometallurgical programs empower you to make data-driven decisions throughout the mining process. By identifying mineralogical variations and geological heterogeneity, you can implement targeted extraction techniques, minimize waste, and enhance economic viability.

Who should attend

Geologists and Mineralogists Metallurgical Engineers Process Engineers Mining Business Professionals Plant Managers Geotechnical engineers Civil engineers Engineers of record Design Engineers Planners Safety, Health and Environmental practitioners Surveyors and remote sensing experts Other interested and involved persons

COURSE STRUCTURE

Setting up a Geometallurgical Program

- Campaign planning and objectives
- ✓ Phases in geometallurgical campaigns
- Planning and experimental design
- Site sampling approach/method
- Orientation study

Ore Characterisation

- ✓ Visual and hyperspectral imaging
- Bulk Mineralogy (hXRf, QXRD, XRF)
- **Process Behaviour Characterisation**
- Blasting
- Dropweight Impact Breakage & Abrasion Test
- High Pressure Grinding Roll
- Grinding Bond Ball Work Index
- Fine Grinding
- Grind size selection
- Flotation
- ✓ Hydrometallurgical Leaching
- Gravity Separation
- Magnetic Separation
- Ore Sorting / Sensor Sorting
- Pyrometallurgy

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Small Scale Proxy Test

- ✓ EQUOtip test
- ✓ Point Load Index Measurement
- ✓ Impact Breakage SMC Test
- ✓ RBT Impact Breakage Test
- Piston and Di Compress Bed Breakage
- Grinding Batch Operating Work Index
- SGS SPi test
- Mergan Work Index
- Comminution Index

Your Expert Facilitator Dr Nicolaas Steenkamp

Has been involved in the mining industry for over two decades. He has been involved in various aspects of the geometallurgical sector, ranging from mineralogical investigations, business plans, re-processing potential, technical studies, site inspections and laboratory audits. He has presented on geometallurgical related topics at various international conferences and published articles in several industry magazines. Dr Steenkamp also remains abreast of the relevant industry regulations and guidelines and assist clients to remain compliant.

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Process Behaviour Characterisation Orientation Study Design and Data Analyses

- Experimental Design
- Rank and Compare Process Recoveries
- Economic Modelling and Business Model Development

Process behaviour Ore Type Class Definition

- Process modelling by Class
- Engineering Simulatiokn
- Hypothesis Sample Study
- Experimental Test work

Mapping Process Domaining

- Mineral signatures
- Proxy tests
- Domain behaviour

Assessment of Geometallurgy Campaign and Application

- ✓ Potential Gaps
- Address Aims and Hypothesis
- Developing a Production Protocol
- ✓ Brush Steps



Registration Form

R8990.00 Per Delegate excl.Vat

Live Webinar: R7990.00 Per Delegate excl.Vat

Event Name:			Geometallurgical Practices for the Mining Industry			14 th – 15 th March 2024			
Company Name :						Tel No:			
						Fax No:			
Physical/ P.O Box Address:						Dietary requirements/ a ONLY	llergies: Venue Option		
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