



BM
BASE METALS
2023

**COPPER
COBALT
AFRICA**

IN ASSOCIATION WITH
THE 10TH SOUTHERN AFRICAN
BASE METALS CONFERENCE

12-16 JUNE 2023

**AVANI VICTORIA FALLS RESORT,
LIVINGSTONE, ZAMBIA**



Short Course

FLOTATION: FUNDAMENTALS AND APPLICATIONS TO COPPERBELT ORES

Monday 12 June 2023

Course description

An increase in exploitation of copper sulfide deposits in the African Copperbelt, coupled with transitioning of other oxide deposits into the sulfides zone, has resulted in more processing facilities coming online in recent years. Copper sulfides are optimally recovered to acceptable and saleable concentrate levels by means of froth flotation and copper metal is further recovered by a series of downstream processing units. The increased processing of sulfide deposits and experienced challenges with processing of mixed ore sulfides has led to increasing focus and collaboration between operators, industry equipment suppliers, reagent vendors, and key service providers to conduct research for the various circuit optimizations. This short course on froth flotation was initiated in response to industry demand for sharing of knowledge and building regional capacity in this technology. The course covers fundamentals of flotation and equipment as well as practical cases of success stories from the various operations in the Copperbelt.

The course topics will be presented by renowned industry leaders in the field.

The short course will be accredited for one (1) Continuing Professional Development (CPD) point by the Engineering Council of South Africa (ECSA).

Topics and Presenters

Fundamentals of froth flotation

Professor Natasia Naude, *Associated Professor, University of Pretoria, RSA*

Different flotation technologies

Dr Nathalie Kupka, *Senior Metallurgist (Flotation), MOgroup, Finland*

Mineralization of the Copper Belt and overview of flotation circuits

Linda Mahlangu, *Regional Metallurgist, Clariant, RSA*

Process mineralogy for flowsheet optimization and design: best practice

Elizabeth Whiteman, *Principal Geoscientist, XPS, Canada*

Process mineralogy for flowsheet optimization and design: case studies

Tony Deng, *Superintendent Mineral Processing, XPS, Canada*

Review of flotation of copper oxide ore in DRC

Dr Johnny Kalala, *DRA Global, RSA*

Mixed ore flotation, successful case at Kansanshi

Barnabas Ng'ambi, *Concentrator Manager, FQM, Zambia*

Flotation circuit optimization - reagents and control

Frane van der Walt, *Independent Consultant, ADIUS, Australia*

Sampling and metal accounting

Adolph Kleynhans, *Technical Director, Metal Management Solutions, RSA*

Registration is available at <https://www.saimm.co.za>. or Click here to register

For further information, see:

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