

# Short Course FLOTATION: FUNDAMENTALS AND APPLICATIONS TO COPPERBELT ORES

## 4 October 2023

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### 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).

### Programme

Time	Description	Presenters
08:00 -08:30	Zoom Login and Welcome	
08:30-09:10	Fundamentals of Froth Flotation	N. Naude
09:10-09:50	Different Flotation Technologies	N. Kupka
09:50-10:30	Flotation circuit optimisation - reagents and control	F. Van der Walt
10:30-10:45	<b>Tea Break</b>	
10:45-11:25	Review of flotation of copper oxide ore in DRC	J. Kalala
11:25-12:05	Mixed ore flotation, successful case at Kansanshi	B. Ng'ambi
12:05-12:30	<b>Lunch Break</b>	
12:30-13:10	Sampling and Metal Accounting	A. Kleynhans
13:10-13:50	Flotation Circuit Considerations	N. Makhotla
13:50-14:05	<b>Tea Break</b>	
14:05-14:45	Process mineralogy for flowsheet optimization and design: best practice	E. Whiteman
14:45-15:25	Process mineralogy for flowsheet optimization and design: case studies	T. Deng

**REGISTRATION FEE : R4000 excl. vat**

### FOR FURTHER INFORMATION, CONTACT:

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