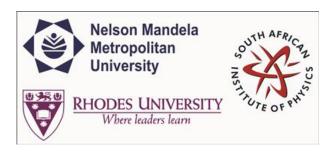
SAIP2015



Contribution ID: 382

Type: Poster Presentation

Iron bearing minerals characterised with Mossbauer spectroscopy at the Mineral Processing and Technology Research Centre, University of Johannesburg, South Africa

Tuesday, 30 June 2015 16:10 (1h 50m)

Abstract content
 (Max 300 words)
 dref="http://events.saip.org.za/getFile.py/starget="_blank">Formatting &
br>>special chars

57Fe Mossbauer spectroscopy has been extensively used at the Mineral processing and technology research centre of the University of Johannesburg. Geophagic claya raw materials as well as processed products were characterised. Calcines emanating from the Nkomati nickel bearing concentrate roasted at different temperature (5500C; 650 0C; 750 0C 850 0C and 950 0C) were studied at room temperature while the beneficiation of chromite minerals, through magnetic separation and gravity concentration steps, from the PGM's flotation tailings was monitored using Mossbauer spectroscopy. This paper discusses results obtained from all the above extraction metallurgy processes as elucidated by Mossbauer spectroscopy at the Faculty of Engineering of the University of Johannesburg.

Apply to be
br> considered for a student
br> award (Yes / No)?

No

Level for award

- (Hons, MSc,

- PhD, N/A)?

N/A

Main supervisor (name and email)

sand his / her institution

Prof. Antoine F. Mulaba-BAfubiandi, amulaba@uj.ac.za

Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?

yes

Please indicate whether

-br>this abstract may be

-published online

-(Yes / No)

Primary author: Prof. MULABA-BAFUBIANDI, Antoine-Floribert (University of Johannesburg)

Presenter: Prof. MULABA-BAFUBIANDI, Antoine-Floribert (University of Johannesburg)

Session Classification: Poster1

Track Classification: Track A - Division for Physics of Condensed Matter and Materials