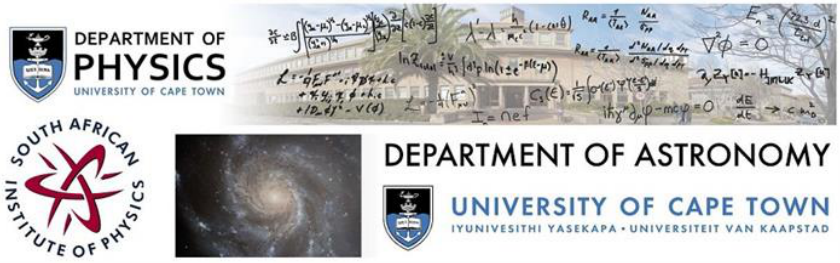


Contribution ID: **509** Type: **Oral Presentation**

# Physics behind the life cycle and life cycle analysis of artisanal clay brick making

*Thursday, 7 July 2016 10:20 (20 minutes)*

## Abstract content <br>   (Max 300 words)<br><a href="http://events.saip.org.za/getFile.py/a target="_blank">Formatting &<br>Special chars</a>

Life Cycle approach is a step by step description of a process of product value chain. Lifecycle analysis is a descriptive tool allowing an assessment of the effect on the environment. The intrinsic relationship between the life cycle and life cycle analysis will be discussed using the physics of systems. The case of artisanal brick-making in the Dididi village of Nandoni dam (Venda) will be used to iluustrate the above. The present paper will shade light on the process involved in the mining of the clayey soil materials used in the artisanal brick-making, the process involved of the brickmaking , their level of commitment to rehabilition and compliance to related legislation and their impact on the existing environment and landscape. Physics fundamentals will help on the above discussion.

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

No

## Level for award<br> (Hons, MSc, <br>   PhD, N/A)?

MSC

## Main supervisor (name and email)<br>and his / her institution

Prof. Mulaba-Bafubiandi

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

Yes

## Please indicate whether<br>this abstract may be<br>published online<br>(Yes / No)

Yes

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

**Co-authors:** Dr NYEMBWE, Didier Kasongo (University of Johannesburg); Mr TSHIYOYO, Madjer Monatshiebe (University of Johannesburg)

**Presenter:** Mr TSHIYOYO, Madjer Monatshiebe (University of Johannesburg)

**Session Classification:** Applied Physics (1)

**Track Classification:** Track F - Applied Physics