



Contribution ID: 367

Type: **Oral Presentation**

## Radon escape from mine tailings dams

*Wednesday, 13 July 2011 14:15 (15 minutes)*

Gold mine tailings dams contain considerable amounts of Ra-226 and have therefore been identified as large sources of radon. In this contribution we will discuss measurements at a disused Kloof mine dump near Carletonville to investigate the radon exhalation from the dump as well as the gamma radiation from the dump.

We have also taken soil samples in order to find the activity concentrations as well as to study the diffusion and emanation of radon.

**Level (Hons, MSc, &nbsp; PhD, other)?**

PhD

**Consider for a student &nbsp; award (Yes / No)?**

yes

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

yes

**Primary author:** Mr ONGORI, Joash (UWC)

**Co-author:** Prof. LINDSAY, Robert (UWC)

**Presenter:** Mr ONGORI, Joash (UWC)

**Session Classification:** NPRP

**Track Classification:** Track B - Nuclear, Particle and Radiation Physics