



Contribution ID: 312

Type: Oral Presentation

## ASSESSMENT OF ANNUAL EFFECTIVE, DOSES FROM ENVIRONMENTAL TERRESTRIAL GAMMA RADIATION AND IN DANGOTE CEMENT INDUSTRY, IBESE OGUN- STATE NIGERIA

Wednesday, 5 July 2017 15:20 (20 minutes)

Terrestrial gamma radiation dose rates of Dangote cement industry Ibese Ogun state were measured using Digilert200. The mean outdoor terrestrial gamma dose rate is 137.16nGy/h with a range of 104.4nGy/h to 159.6nGy/h. Also, the annual effective dose ranged from 0.1600mSv/y to 0.2446mSv/y with a mean value of 0.210mSv/y. This value of mean annual effective dose of 0.210mSv/y is well below 1mSv/y maximum permissible limit for the public, set by International Commission on Radiological Protection (ICRP). This indicate that the people living and working within the area are safe and are not exposed to high doses of radiation as a result of activities in the industry.

KEYWORDS: Radionuclides, Ibese, Effective dose, Digilert200, Environmental, Dose rate

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

NO

Level for award (Hons, MSc, PhD, N/A)?

N/A

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

Yes

**Primary author:** Mr OLATUNJI, Kehinde (Department of Science Laboratory Technology , Osun State College Of Technology, Esa-Oke,Osun State Nigeria)

**Co-author:** Mr BAMIDELE, Lateef (Department of Science Laboratory Technology , Osun State College Of Technology, Esa-Oke,Osun State Nigeria)

**Presenter:** Mr OLATUNJI, Kehinde (Department of Science Laboratory Technology , Osun State College Of Technology, Esa-Oke,Osun State Nigeria)

**Session Classification:** Nuclear, Particle and Radiation Physics 1

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