



Private Bag X2046,  
Mmabatho South Africa  
2735

Tel: 018 389-2111  
Fax: 018 392-5775  
Web: <http://www.nwu.ac.za>

**Centre for Applied Radiation Science and Technology**

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## **Subject: Motivation to Attend ANSTT6 Workshop**

Dear Organising Committee,

I am writing to express my strong interest in attending the Sixth Workshop on Advanced Nuclear Science and Technology Techniques (ANSTT6) to be held at iThemba LABS, Cape Town.

I am a PhD candidate working in the field of radiation and environmental radioactivity, with a particular focus on Naturally Occurring Radioactive Materials (NORM) in the oil and gas industry. My research investigates the accumulation of radioactive contaminants in black powder generated during pipeline operations such as pigging and filtration processes. Through gamma spectrometric analysis and radiological risk assessment, I aim to quantify activity concentrations and evaluate potential exposure risks to workers and the environment.

The ANSTT6 workshop aligns directly with my research interests, particularly in areas such as environmental measurements, nuclear experimental techniques, radiation and health physics, and data analysis. The opportunity to engage with experts and peers working in similar and complementary domains will significantly enhance my understanding of advanced methodologies and emerging technologies applicable to my work.

Attending this workshop will also strengthen my ability to critically interpret radiological data and improve and my experimental approaches. In addition, the focus on collaboration and networking is particularly valuable, as I am eager to establish connections that could lead to interdisciplinary research opportunities and potential future collaborations.

Furthermore, I am especially interested in learning more about innovative measurement techniques and how they can be applied to complex matrices such as black powder in NORM studies.

I am highly motivated to contribute to and benefit from this workshop, whether through participation in discussions, presentations, or knowledge exchange. I believe that

attending ANSTT6 will not only support my academic development but also enhance the impact and relevance of my PhD research.

Thank you for considering my application. I look forward to the opportunity to participate in this valuable scientific event.

Regards,

TD Mokgele