Contribution ID: **141** Type: **Oral**

Keynote Address: The Status of Nuclear Technology Applications, Safety and Security in Tanzania

Thursday, 18 April 2024 09:30 (30 minutes)

Nuclear technology presents both opportunities and challenges for countries seeking to meet their growing energy demands and advance scientific research. While nuclear technology offers the potential for clean, reliable, and sustainable power generation and advancements in various sectors, its deployment necessitates a robust framework for safety and security to mitigate potential risks. In Tanzania, nuclear technology is widely applied in medical, agricultural and industrial activities. Due to a rapidly expanding economy, the country aims to harness nuclear energy for electricity generation. Yet, successfully implementing nuclear technology in Tanzania requires a multi-faceted approach that integrates nuclear safety and security considerations. This entails robust design and engineering practices incorporating safety features and security measures. Equivalently, comprehensive training programs for personnel, encompassing safety and security awareness are key for developing a skilled workforce capable of safely operating and securing nuclear facilities. Furthermore, engaging in international cooperation plays a great role in fostering a safety and security culture in the country. Therefore, as the nation explores the potential of nuclear technology, it must prioritize nuclear safety and security culture amongst its people. This work highlights the applications of nuclear technology in Tanzania as well as the status of safety and security aspects of the technology.

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Session Classification: Nuclear Safety, Security and Applications