

# The 5<sup>th</sup> Advanced Nuclear Science and Technology Techniques (ANSTT5) Workshop

15 – 19 April 2024 at NRF-iThemba LABS, Cape Town

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## SPEAKERS



**Prof. Helen Boston** obtained a PhD in experimental nuclear physics from the University of Liverpool in 2001. Helen then spent a number of years at TRIUMF, Canada, as a research scientist researching super allowed beta decays and nuclear spectroscopy using the 8Pi, GPS, SPECTAR and TIGRESS arrays. She returned to Liverpool to take up a position in the Nuclear Physics group leading research into novel detector designs for a broad range of applications such as medical imaging, security environmental assaying and nuclear decommissioning. She is also the PGT programme director for Clinical Sciences in Medical Physics and Bioinformatics.

**Dr Jacobus Diener** is a PhD (Physics) graduate from Stellenbosch University, South Africa. After a postdoctoral fellowship at the National Institute for Theoretical Physics, he joined the Department of Physics and Astronomy at BIUST in 2016. His research interests are the thermodynamics of dense and highly magnetized neutron and neutron star matter and its application to the neutron star interior. He also has a keen interest in education and is currently researching ways to improve students' conceptual understanding in Physics.



**Dr Innocent J. Lugendo** is a Lecturer, a Researcher and Consultant in the fields of Nuclear Physics and Nuclear Technology. He currently serves as the Academic Manager of the Central Science Workshop at the University of Dar es Salaam where he has been a faculty member since September 2009. Dr. Lugendo holds a Ph.D. in Nuclear Physics with specialization in Nuclear Structure and Radiation Detectors. His research interests are in the areas of Nuclear Technologies including Radiation Detectors, Nuclear Analytical Techniques, Medical Imaging and Radiotherapy.



**Dr Julian Awuor Ogondo-Odhiambo** is a registered geologist with a background in environmental science and paleoclimates. She is currently Lecturing at the Department of Geology and Meteorology at the South Eastern Kenya University. Her research interests include human impact on the environment, quaternary geology, mid-late Holocene Palaeo-climatology and Palaeoenvironments, and micropaleontology.



**Ms Edzani Ratsibi** works at Necsa as a Reactor Utilization Supervisor for the SAFARI-1 Research Reactor. Ms Ratsibi has a background in Physics, Material Science, and Science and Technology studies. She holds a BSc-degree in Applied Physics (UKZN), an MSc-degree in Physical Science (UWC), and an MPhil in Science and Technology Studies (SU) with focus on Science Communication. Ms Ratsibi has been actively involved in the communication of nuclear science and technology with keen interest of non-power applications of nuclear energy.



**Dr Mojisola Usikalu** holds a PhD from Covenant University, in Ota. Her current research focuses on the effect of radiation on biological materials, the determination of radioactivity levels and its implication on health, and environmental forensics. She is a recipient of the Elsevier Foundation Award for Early Career Women in Physics and Mathematics and member of the Editorial Board for a number of local and international journals.



**Dr Stephan Woodborne** is the Senior Accelerator Mass Spectrometry Scientist at NRF-iThemba LABS (Laboratory for Accelerator Based Sciences), an Associate Professor at the Mammal Research Institute at the University of Pretoria, and a research associate at the University of the Witwatersrand. He uses applied particle physics techniques to address socio-economic and ecological responses to climate change and has 23 years of experience in radiocarbon dating and stable light isotope analyses.



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