

Characterisation of Materials using X-rays and Deep Training

Tuesday, 12 November 2019 11:30 (30 minutes)

Africa does not have a synchrotron, and while the establishment of a synchrotron light source on the African continent continues to be discussed, these initiatives get stalled by the lack of expertise on the African continent in successfully designing an experiment and analysing the large amount of data. In this contribution, I will highlight some collaborative projects between African researchers and the technology and expertise around the world. I will also highlight the South African “Indaba”, a series of interdisciplinary workshops, organised by the South African Crystallography (SACrS), which assembles scientists from around the world particularly in chemistry. Lastly, I will also present the “deep learning” experience at ID22 - High resolution powder diffraction beamline – ESRF. Included will be my scientific work at the institution which can be summarised as participation in in-house research programmes, the operation of the beamline, providing support to external users as local contact and development of a personal research program.

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Session Classification: Plenary

Track Classification: Plenary