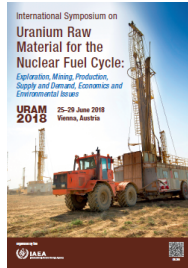


International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues (URAM-2018)



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USING NUCLEAR TECHNOLOGY FOR DETECTION AND DETERMINATION OF MINERALS AND FOR PREPARING STANDARD REFERENCE MATERIAL

Wednesday, 27 June 2018 17:00 (1 hour)

The role of mining sector in Sudan economic support is approximately 4% . At present, the only resources mined in Sudan are: gold, chromium ore, salt and building materials are mainly cement raw materials. we want to ensure future availability and add more minerals to the exploration mineral list that plays important roles in the economy, the actions need to be taken. More efficient and economical methods of exploration and extraction of raw materials need to be developed. Effective production methods must be used that provide energy and raw materials . It also influences the relevant nuclear and analytical techniques such as X-ray fluorescence (XRF) and Neutron Activation (NA) analysis. The analytical techniques MIN will be used for this study besides the extrapolation of the coupled plasma mass spectrometer (ICP-MS) as they have great potential to improve the efficiency of the results from Raw materials. Since the main task of the Sudanese Atomic Energy Commission (SAEC) is to promote the safe use of nuclear energy through the use of nuclear analytical techniques in the exploration, extraction and treatment of metallic or non metallic elements uranium minerals are most important to be investigated.

Country or International Organization

Sudan

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