Contribution ID: **42** Type: **Poster**

Radiological Characterization of the Radioactivity at Al-Tuwaitha Nuclear Site and Determination of the Radiation Doses for Workers.

Abstract
The research aims to assess the radioactivity levels at Al-Tuwaitha nuclear site due to the remnants it contains such as destroyed buildings, facilities, and the previous activities at the site before the gulf-war, 1991. In addition to the decommissioning processes and treatment of the radioactive contamination practiced by the assigned teams from the directorates of the site since 1991 until now. Through the research, different environmental samples (soil, water, air, etc.) will be collected for measurements using different laboratory techniques such as gamma spectroscopy (HPGe), as well as portable devices.
Then, the calculated data will be used to determine the received radiation doses and their impact on workers, people, and the environment. In addition, the results will be used to calculate the Evaluation of Radiological Hazard Effects of Raeq, absorbed dose, and the annual effective dose in (Bq.Kg-1, nGy.hˆ(-1) and mSv.yˆ(-1) (respectively, and comparing it with the global recommendation limits
Keywords: Al-Tuwaitha Nuclear site, Radionuclides, HPGe.

Speakers email

salamalnasri@gmail.com

Speakers affiliation

Iraqi Ministry of Science and Technology

Name of Member State/Organization

Salam Al-Nasri/Iraqi Ministry of Science and Technology/Al-Twuaitha Nuclear Site

Primary author: Dr AL-NASRI, Salam (Iraqi Ministry of Science and Technology)

Presenter: Dr AL-NASRI, Salam (Iraqi Ministry of Science and Technology)

Session Classification: Session 3. Radiation effects, health risks of occupational exposure and worker's health surveillance

Track Classification: 2. Radiation effects and health risks from radiation exposure at the workplace