

RADON 2024



Monday, 9 September 2024 - Thursday, 12 September 2024

Faculty of Nuclear Sciences and Physical Engineering

Scientific Programme

Methods of measurement for both radon and thoron - devices, metrological aspects

Focused on:

- Radon and thoron monitoring at workplaces incl. NORM workplaces, personal monitoring.
- Measurement in mixed fields of radon and thoron.
- Measurement of radon and thoron progenies.
- QA/QC of radon and thoron measurements.

Other relevant topics: Measurement errors; accuracy of measurement; comparison measurements; radon/thoron time series analysis; QA and QC programs; active aerosol spectra measurements; attached and unattached fraction of radon/thoron progenies measurements; etc.

Radon - information carrier, radonometry, radon as a tracer gas

Focused on:

- Multiparametrical models and long term measurements analysis.

Other relevant topics: Application of ionizing radiation; diagnostic measurements in dwellings; earthquake predictions; the role of radon and geophysical measurement in mineral deposits prospecting methods; modelling of air mass transport; diffusion coefficient and ventilation rate measurements; etc.

National programs and projects

Focused on:

- Implementation of ICRP137 dose conversion coefficients for radon in regulation of exposure at workplaces.
- Optimization process in protection against elevated exposure from radon (methodology, case studies (workplaces, mitigation of residential houses)).
- Specific case studies on how countries manage radon from NORM sources.

Other relevant topics: Communication campaigns and strategies; national radon programs; delineation of "radon prone areas"; motivation for remedy; international collaboration; regulation of radon on workplaces etc.

Radon in civil engineering

Focused on:

- Case studies incl. optimisation of radon remedial actions and preventive measures.
- Building material as a source of radon and thoron.

Other relevant topics: General standards and methods of remedial measures; preventive measures; efficiency of used remedial measures; modelling of radon transport through building construction and radon transfer from soil into house; etc.

Health effects of radon

Focused on:

- New findings from epidemiological studies.

Other relevant topics: Lung cancer and other health issues related to long-term radon exposure; epidemiological studies; synergic effects etc.