

## Naturally occurring radionuclides in work and the natural environment - establishing the problem definition, finding sources and exposure assessment

the two weeks training course organized by:

**Silesian Centre for Environmental Radioactivity**

together with **Competence Development Centre of the GIG Research Institute.**

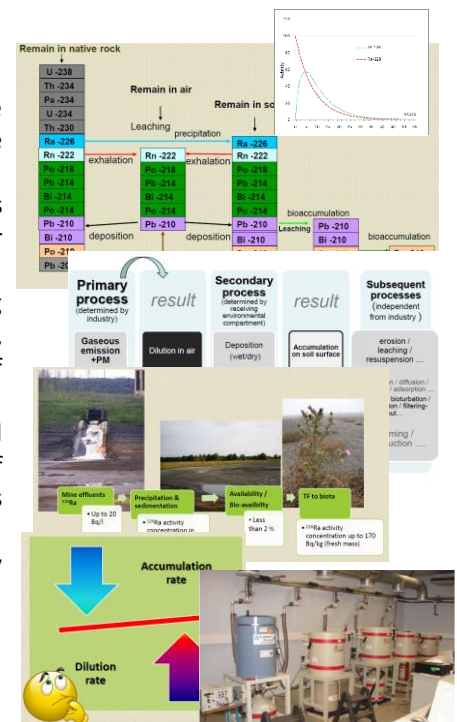
Place and date of training: on-line, **April 12<sup>th</sup> - 23<sup>rd</sup> 2021**



### The programme

The main goal of the training course is to systematise and harmonise trainee's knowledge in the field of natural radioactivity and create solid and unified foundations for future either research or professional activities aimed at different aspects of natural radionuclides occurrence. The training course focuses on most aspects related to NORM and radon from the perspective of potential human and wildlife exposure and covers:

- basic information about NORM, including sources and processes leading to natural radionuclides accumulation,
- necessary knowledge to understand all mechanisms leading to the situation when natural radionuclides should be considered as a source of radiation risk,
- clarification of all features of NORM/radon derived exposure scenarios and identifies differences from exposure scenarios present in either nuclear industry or medicine,
- key processes controlling the behaviour of naturally occurring radionuclides in different ecosystems, including basic concepts, variables/parameters and kinetics needed for proper evaluation of existing exposure situation,
- overview of measurement/monitoring methods with the special attention paid to features and difficulties specific to measurement of natural radionuclides subject to successive decay, results interpretation, and criteria for management decisions,
- identification of cases of concern, by industry type as well as by technological processes applied,
- legal context and the inconclusiveness of existing regulation.



### For whom?

The expected target group are PhD students, researchers with different background involved in NORM and radon investigations, authorities' representatives, and practitioners from industries of concern. The group of max 16 trainees assure full interaction with lecturers, effective execution of exercises planned and reasonable time for individual/group works results presentation, discussion, and final evaluation. The background in nuclear physics, ionising radiation and radiation protection is expected.

Course participation is free of charge for participants. The training course is conducted on-line, in English.

More details and registration are available at: <https://szkolenia.qig.eu/node/152>