

INTERNATIONAL INTERCOMPARISON EXERCISE ON NATURAL RADIATION MEASUREMENTS UNDER FIELD CONDITIONS 2024

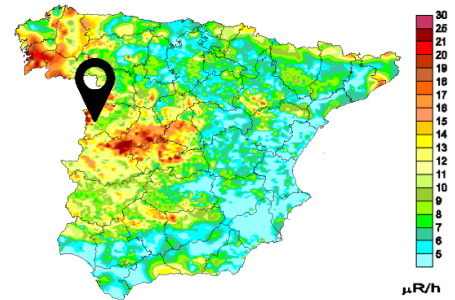
Place: Laboratory of Natural Radiation (LRN)

Saelices el Chico (Salamanca, Spain)

Date: May 20-23, 2024

Organizers:

- Laboratory of Environmental Radioactivity (LaRUC) - Radon Group (University of Cantabria)
- ENUSA Industrias Avanzadas
- Consejo Seguridad Nuclear (CSN)



LaRUC
Laboratorio de
Radiactividad Ambiental | Universidad
de Cantabria

enusa

CSN CONSEJO DE
SEGURIDAD NUCLEAR

The intercomparison exercise will be held between 20th-23th May in the LNR (Laboratory of Natural Radiation) located at the facilities of the former uranium mine managed by the National Uranium Company ENUSA Industrias Avanzadas (Address: Ctra. Ciudad Rodrigo - Lumbrales, km 7. 37592 Saelices el Chico, Salamanca (Spain)).

Activities:

❖ **Radon Exposure**

One radon exposure is planned inside the Room1 of the LNR according to natural evolution of radon during intercomparison days with a maximum value of 5000 kBq m⁻³h.

There are two participation possibilities (one of them or both):

➤ **Passive detectors:**

Each participant should send 10 detectors: 6 units for exposure, plus 4 transit detectors (just one type of detectors is possible by participant).

➤ **Radon monitors:**

Each participant should send 1 monitor maximum.

It should have the date/hour synchronized (Spanish Local time: UTC+2 CEST)

Brief instructions should be provided (e.g. how to turn on/off, etc.)

Devices (Passives detectors and Radon monitors) should be sent to the address indicated at the end of this document (after confirmation of participation). The participants are requested to order return consignment of devices themselves and at their own expense. LaRUC staff will communicate when the packed devices are ready for return consignment.

The maximum number of participants for the radon intercomparison is **50** with preference given to those who signed up on the first call before 26 January 2024.

❖ External gamma radiation rate

- Two different reference points will be available at the site of the intercomparison. Measurements will be conducted *in situ* during the days 21 and 22 May 2024.
- For this exercise, the participants must attend **in person** and use their own measuring systems. There is no limit of instruments by participant.
- The measurand to be intercompared will be the air kerma rate ($\mu\text{Gy/h}$).

Fees:

The intercomparison exercise will be free of charge.

Participation:

Participants must submit the form below by **10 April 2024**.

After this date, participation will be confirmed and radon equipment must be received by **10 May 2024** at the latest.

More information and shipping address:

**LaRUC, Facultad de Medicina, Universidad de Cantabria
C/Cardenal Herrera Oria s/n, 39011, Santander (Spain)**

E-mail: daniel.rabago@unican.es / luis.quindos@unican.es / laruc@unican.es

Phone: +34 942 20 22 07

Application form:

Organization name:

Acronym:

Address:

Country:

Contact person:

E-mail:

Phone number:

Activities to participate in:

Radon in air with Passive detectors:

Radon in air with Radon monitors:

External gamma dose rate: