

ORGANISING COMMITTEE

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III international radon in-the-field intercomparison exercise for passive detection systems in various work and residential environments

JOINTLY ORGANISED BY:



MILANO, ITALY
October 2019 – April 2020

The Italian Radiation Protection Society (AIRP), always engaged in the promotion of initiatives aiming at the harmonization of radiation protection measurements and techniques, organized the first international radon-in-air intercomparison exercise for passive devices in “Marie Curie’s cave” in Lurisia, in the summer 2014. A second intercomparison exercise, for work and residential environments, was organized in Piemonte, in 2016.

The enthusiastic participation to both intercomparison exercises of several Laboratories confirmed their interest in joining realistic intercomparison exercises, reproducing daily operational exposure conditions.

Building on the experience of those two first initiatives, AIRP is glad to promote the third International Radon intercomparison exercise in 2019-2020, which will again take place in work and residential environments.

A specific irradiation will be also achieved in a specific exposure environment: the radon chamber of the Italian Primary Metrological Institute ENEA-INMRI: that exposure will have shorter duration and will feature mixed radon-thoron concentrations in air.

OPERATIONAL CONDITIONS

The physical quantity to be measured is radon exposure in air, with the following operational conditions:

- Approximate Range: from 300 to 5000 kBq·h·m⁻³
- Number of exposures: 4
- Number of exposure situations: 4
- Duration of each exposure: around 6 months (excepting the one in ENEA)
- Environmental conditions: those naturally present in those environments.

Metrological traceability will be ensured by ENEA-INMRI, the Italian Metrological Institute for Ionizing Radiation.

Every Laboratory should participate with one set of 15 passive devices for each measurement system (CR-39, LR115, electrets, etc.).

Transit devices are not required.

Each Participant can provide a maximum of 3 sets.

The outcome of the Intercomparison Exercise will be presented during a specific event, foreseen in autumn 2020. Each Participant will then receive a Certificate containing detailed information on the exposures and all final results. Reports and presentations will include names of Participants and devices, but results will be anonymized.

MILESTONES

- ✓ **15 July 2019:** Deadline for Participants’ registration
- ✓ **15 September 2019:** Deadline for payment and sending devices
- ✓ **October 2019 to April 2020:** Intercomparison exercise
- ✓ **May 2020:** Devices are sent back to Participants
- ✓ **15 July 2020:** Deadline for presentation of measurements results;
- ✓ **Autumn 2020:** Public event, with presentation of results and participation certificates.

REGISTRATION

Laboratories should register via the appropriate webpage at www.airp-asso.it, within 15 July 2019.

Please note that technical devices data will be required during registration.

REGISTRATION FEES

Payments should be received within the 15 September 2019.

First set of devices: 250 euro + VAT 22%, if due

Second and Third set of devices: 180 euro + VAT 22%, if due

Register either online at www.airp-asso.it

Or via wire transfer to:

AIRP c/o Intesa Sanpaolo S.p.A.

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