

*The Organising Committee would like to thank the "Terme di Lurisia" Management, for their enthusiastic participation in Marie Curie's tunnel radon intercomparison organisation.*



## **TIMETABLE**

- **15th May:** Participants' registration
- **15th June:** Payment deadline
- **30th June:** Devices delivered to ARPA IVREA
- **July-August:** Exposure in Lurisia tunnel
- **September:** Devices returned to originating laboratories
- **30th November:** Results and questionnaires returned;
- **31th January 2015:** Participants own results reported;
- **March-April 2015:** Final congress, including presentation of final Intercomparison's results and certificates' delivery.

## **ORGANISING COMMITTEE**

|                      |                       |
|----------------------|-----------------------|
| Francesco CARDELLINI | ENEA – INMRI          |
| Enrico CHIABERTO     | Arpa Piemonte         |
| Luisella GARLATI     | Politecnico di Milano |
| Daniele GIUFFRIDA    | JRC Ispra             |
| Mauro MAGNONI        | Arpa Piemonte         |
| Gianfranco MINCHILLO | JRC Ispra             |
| Elena SERENA         | Arpa Piemonte         |
| Rosabianca TREVISI   | INAIL                 |



## **IN-FIELD INTERCOMPARISON OF PASSIVE RADON MEASUREMENT DEVICES LURISIA SPA, CUNEO, ITALY**



*July - August 2014*

**Terme di Lurisia**

*Roccaforte di Mondovì (CN)*

## RADON-IN-AIR INTERCOMPARISON

Many radon measurement intercomparisons took place in the last decades. Normally, radon intercomparisons are performed in radon chambers and in controlled conditions.

Many Laboratories, though, need to perform intercomparisons reproducing "in-field" conditions, likewise normal ordinary measurements' conditions.

This Intercomparison was organised jointly by the Italian Association of Radiation Protection (AIRP), the Polytechnical Institute of Milano, ARPA Piemonte, INAIL and ENEA, in an effort to promote initiatives aimed at a larger harmonisation of radiation measurements.

The tunnel, belonging to the "Terme di Lurisia" spa is a fascinating place, visited in 1918 by Marie Curie, and is the perfect environment where to conduct this first Italian experience of in-field intercomparison.

Climatic conditions are not controllable as well as radon concentrations.

The Intercomparison will be concluded, in springtime 2015, by a Congress in Lurisia, when official intercomparison results will also be presented and discussed.

## OPERATIONAL CONDITIONS

The operational conditions will be as follows:

- integrated radon concentration range: 400-8000 kBq·h·m<sup>-3</sup>
- number of exposures: 2
- exposure duration: 5 to 45 days
- influence parameter: high humidity.

A number of active monitors, whose metrological reference is assured by the Italian Metrological Institute, ENEA-INMRI, will be placed and continuously will operate inside the tunnel.

Laboratories wishing to participate should submit one or more sets of detectors. A set will consist in 20 identical passive devices (including 4 transit controls). Please note that detectors must be sent fully assembled and ready for use.

Each laboratory estimates the radon exposure given to each passive device, including the transit ones, and reports the results.

## FINAL REPORT

Individual reports will be provided by the Organising Committee for participants' own devices after all results have been received.

Intercomparison global results identified only by code numbers, will be issued once a detailed analysis of all data and information has been completed. A comparative report of all results will be presented and discussed during the 2015 springtime event in Lurisia.

## SUBSCRIPTION

Laboratories wishing to participate to the intercomparison must register, as soon as possible, on the web page:

<http://www.airp-asso.it/reggenerale/radoneng.html>

They will also need to send, via email, some additional information and documentation. All material and payments must be completed before June, 15th, 2014.

## SUBSCRIPTION FEE

For every set of passive devices:

200 € + VAT 22%, if needed (+5 € for electronic payment fees)

Payments must be completed online, using the web page:

<http://www.airp-asso.it/pagamentonline/400-radoneng.html>

Bank transfer is also possible, to:

AIRP, Associazione Italiana di Radioprotezione, c/o Banca Intesa BCI Agenzia 29

CIN K ABI 03069 CAB 05106

CIC 071944210192

IBAN IT97 K030 6905 1060 7194 4210 192

BIC BCITITMM742

Via Filippo A. Gualterio, 105 - 00139 Roma -Italy

## SECRETARIAT

[radon@airp-asso.it](mailto:radon@airp-asso.it)

Anna Prandstatter, Rosamaria Tripodi  
Tel. +39.012.56.45.328  
Arpa Piemonte - Via Jervis, 30 – Ivrea (TO)