



IRSOIL&WATER 2023

***Third radon intercomparison in soil and water
Seminar on measures, remediation and regulatory aspects***

Curinga (CZ)

29-30-31 may 2023

Village Falkensteiner - Acconia di Curinga (CZ)



The Hermitage of St. Elijah-Curinga

Under the patronage of municipality of Curinga



In cooperation with ATECA - ER Employers' Trade Union Association





PRESENTATION

ASSORADON and AIRP propose for 2023 an event entirely dedicated to the radon issue.

IRSOIL&WATER 2023 stems from the need to maintain the high level of interest in soil measurements shown in the two previous experiences IRSOIL 2021-Biella and IRSOIL 2022-Rome.

In this new edition one of the topics will be the measurement of radon concentration in water. Italian Legislative Decree n. 101/2020, which establishes basic safety standards for protection against exposure to ionising radiation, lists in Annex II the minimum requirements for dosimetry services, including participation in suitable interlaboratory comparison programmes, with the aim of consolidating quality standards for radon measurements.

Hence, the need to broaden the scope of the third intercomparison appointment by including the water matrix as the object of study and exercise.

The field exercise relating to the phase of measuring radon concentration in water and/or soil will take place at two different sites for water and one site for soil, in places that are already the subject of research and radiometric characterisation by local authorities.

This will be followed by a technical report with an evaluation of the results obtained.

In this edition, the second novelty will be the proposal of a space with sessions dedicated to radon building remediation experiences.

The organisation aims to broaden the audience and is aimed both at public and private laboratories that, in possession of the dosimetry service requirements, want to practise in the field for radon measurements in the water and/or soil matrix, but also at all professionals who want to deal with the radon issue in all its complexity.

The recent regulatory guidelines on radon remediation and prevention activities for buildings have turned a spotlight on the subject; ASSORADON and AIRP, with the aim of motivating the professional growth of their members and others, are proposing a series of moments of experiential interchange, transversally intervening on the mitigation of buildings and at the same time on prevention policies in the territories by public bodies.

The three-day event, in a journey that has crossed the entire boot in this three-year period, will land in 2023 in Calabria in the municipality of Curinga, province of Catanzaro.



Scientific committee

Fiorello Martire, Segretario Scientifico

Enrico Chiaberto

Stefano Coria

Andrea Gritti

Massimo Faure Ragani

Rosaria Ippolito

Antonio Parravicini

ASSORADON (Cosenza)

ARPA Piemonte, AIRP (Torino)

ASSORADON (Piacenza)

ASSORADON (Bergamo)

ARPA Valle d'Aosta, AIRP (Aosta)

ASSORADON (Roma)

ASSORADON (Piacenza)

Organising committee

Fiorello Martire

Salvatore Procopio

Tiziana Tunno

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Program

First Day: Monday 29 May 2023

12.30 – 13.30 Welcome Aperitif

First Session: radon, risks and opportunities

Chair: Rosaria Ippolito, Francesco Bonacci

- 13.30 - 14.00** *Authorities greetings –Introduction to IRSOIL2023*
Antonio Parravicini Presidente Assoradon, Francesco Mancini Presidente AIRP
- 14.00 - 14.30** *Territory overview and history informations*
Salvatore Procopio
- 14.30 - 15.00** *Natural radioactivity, risks and opportunities – Italian Legislative Decree n.101/20*
Francesco Bonacci
- 15.00 - 15.30** *Regulatory Compliance - Reference Levels and Physical Surveillance*
Fiorello Martire
- 15.30 - 16.00** *Biological effects and new scientific knowledges*
Francesco Tarsitano
- 16.00 - 16.30** **Coffee break**
- 16.30 - 17.00** *Radiolab and Unical school -INFN*
Marcella Capua, Mariagabriella Pugliese
- 17.00 - 18.00** *ROUND TABLE: 'Local authorities, experiences and considerations on prevention policies'*
Moderator: Salvatore Procopio



Second Day: Tuesday 30 May 2023

Second Session: Methodologies and their critical issues in radon measurements in soil and water

Chair: Antonio Parravicini, Massimo Faure Ragani

9.00 - 9.20 *IRSOIL 2022- Presentation of results*

9.20 - 9.40 *Usefulness of radon soil measurements*

Enrico Chiaberto, Stefano Coria

9.40 - 10.10 *The quality of radon measurements in soil*

Massimo Faure Ragani

10.10 - 10.50 *The experience of the Prague intercomparison. Sampling times and methods for measurements in soil matrix*

Matej Neznal

10.50 - 11.20 **Coffee break**

11.20 - 11.40 *The characteristics of the soil and risk classification of the territories*

Andrea Gritti

11.40 - 12.20 *The quality of radon measurements in water. Sampling times and methods for measurements in water matrix*

Maurizio Forte

12.20 - 13.00 *Question time*

13.00 - 14.30 **Lunch**

Third Session: radon gas remediation actions in living and working environments

Chair: Tiziana Tunno, Enrico Chiaberto

14.30 - 15.00 *Remediation methodologies*

Antonio Parravicini

15.00 - 15.30 *Building protection: French experience and methodology*

Bernard Collignan



15.30 - 16.00 *Criteria of energy efficiency vs radon indoor concentrations*
Rosaria Ippolito

16.00 - 16.30 *Site Remediation - Presentation of Results*
Fiorello Martire

16.30 - 17.00 *Site Remediation - Presentation of Results*
Tiziana Tunno

17.00 - 17.15 **Coffee break**

17.15 - 18.00 *Sampling in water matrix at the venue, Consoleto Spring (RC)*
Coordination: Antonella Nicolino, Salvatore Procopio

18.00 - 19.00 *ASSORADON Members' Meeting*

21.00 *Social Dinner at Village Falkensteiner, Acconia di Curinga (CZ)*

Third Day: Wednesday 31 May 2023

Measurements

9.00 - 16.00 *Performing field measurements for water matrix at Samboni spring and for soil matrix at St. Elias Hermitage*

11.30 - 12.00 *Historical and cultural presentation of the site*
Rosaria Ippolito

12.30 - 13.30 *Packed lunch by the organization*



Registration

The program consist of two phases:

1. an in-depth conference on the radon issue
2. a practical part with radon measurements in water and soil matrix

The activities will mainly take place in the Falkensteiner Village* in Acconia di Curinga which offers hospitality to the participants at a discounted price. The hotel reservation is the responsibility of the participant who will also pay for his stay.

	Registration fee per person not including living expenses (excluding VAT)	AIRP, Assoradon e Ateca members	NO members
1	Participation only conference, staying in the Falkensteiner village	free	free
2	Participation only conference without staying in the Falkensteiner village	€ 100	€ 130
3	Participation to IRSOIL&WATER 2023 measurements	€ 50	€ 100

Registration is inclusive of:

- coffee break
- business lunches
- social dinner
- transfer to the water-land measurement sites



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RADIOPROTEZIONE E SICUREZZA DEL LAVORO
BONIFICHE E CARATTERIZZAZIONI RADIOMETRICHE

