



8th International Conference
on Protection against Radon at Home and at Work

13th International Workshop
on the Geological Aspects of Radon Risk Mapping

www.radon2016.cz
radon@radon2016.cz
September 12-16, 2016, Prague



Organized Jointly by

Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering
National Radiation Protection Institute
RADON v.o.s.

www.radon2016.cz
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The Conference will take place in Prague the capital of the Czech Republic,
Main Lecture Hall of the Faculty of Sciences and Physical Engineering,
Břehová 7, Prague 1.

Important Dates

First announcement, start of registration	February 8 th , 2016
Second announcement	May, 2016
Deadline for abstract submission	June 15 th , 2016
Abstract acceptance	July 10 th , 2016
Paper submission	September 16 th , 2016
Deadline for comparison measurement registration	August 12 th , 2016
Early registration fee	Before July 15 th , 2016

Fees

	Radon Conf. + GARRM	Radon Conf.	GARRM
Early registration and payment	400 EUR	300 EUR	200 EUR
Late/on-site registration and payment	500 EUR	350 EUR	250 EUR
Student*	200 EUR	150 EUR	100 EUR
Comparison measurement		free of charge	
Excursion	40 EUR		

* Students are required to provide a scan of an ISIC card via e-mail prior to payment.

The fee contents:

Book of abstract and other conference materials and services; welcome party; conference dinner; comparison measurement; and paper publishing.

The Radon conference and the GARRM do not provide sponsorship, stipends and travel grants.

Preliminary program – September 11th – 17th

		Registration	Sessions	Social program	
Sun. 11.9.	Radon Conf.	16.00 – 18.00	-	-	Conf. Venue
Mon. 12.9.	Radon Conf.	8.00 – 18.00	9.30 – 18.00 Comparison meas. 10.00	Welcome Party 19.00	Conf. Venue
Tue. 13.9.	Radon Conf.	8.00 – 18.00	8.30 – 18.00	-	Conf. Venue
Wed. 14.9.	Radon Conf. +GARRM	8.00 – 18.00	8.30 – 18.00	Conf. Dinner 20.00	Conf. Venue Prague
Thu. 15.9.	GARRM	8.00 – 18.00	8.30 – 18.00	-	Conf. Venue
Fri. 16.9.	GARRM	8.00 – 13.00	8.30 -18.00	Closing Ceremony	Conf. Venue
Sat. 17.9.	Radon Conf. +GARRM	-	Excursion whole day	8.00	Details in June

Publication

The peer reviewed manuscripts will be published in the Special Issue of Radiation Protection Dosimetry in 2017 Special Issue.
Check www.radon2016.cz for further details.



Inter-comparison

As in previous year, traditional inter-comparison will be organized in the big radon chamber and the radon/thoron chamber located in the premises of the National Radiation Protection Institute. This year, the inter-comparison is organized in two modes:

- RADON gas and/or RADON PROGENY MEASUREMENT in the Radon chamber
- RADON/THORON gas in the Thoron chamber (**passive detectors only**)

Registration should be done by registration form www.radon2016.cz before 12.8.2016.
Inter-comparison is organized for free for the Conference and the GARRM participants.

Radon Conference – Scientific Topics:

- **Methods of measurement for both radon and thoron - devices, metrological aspects**

Measurement errors; accuracy of measurement; comparison measurements; radon/thoron time series analysis; QA and QC programs; active aerosol spectra measurements; attached and unattached fraction of radon/thoron progenies measurements; etc.

Focused on:

- Cheap continuous radon monitors – new possibilities for measurement or just toys?
- Radon monitoring on workplaces incl. personal monitoring. How to communicate the requirements for workplaces monitoring towards employers.
- Thoron prone areas – measurement of thoron and thoron progenies, thoron surveys.
- Thoron and thoron progenies monitoring on workplaces.



- **Radon - information carrier, radonometry, radon as a tracer gas**

Application of ionizing radiation; diagnostic measurements in dwellings; diffusion coefficient and ventilation rate measurements; etc.

Focused on:

- Multiparametrical models and long term measurements analysis.

- **National programs and projects**

Public relation; national and other radon programs; legislation and strategies; motivation for remedy; international collaboration; international comparisons; etc.

Focused on:

- New dose conversion factors for radon – what change in regulation do they bring?
- Optimization of radon and thoron protection – case studies.



- **Radon in civil engineering**

Cost benefit and cost effectiveness of radon remediation, general standards and methods of remedial measures; preventive measures; efficiency of used remedial measures; modelling of radon transport through building construction and radon transfer from soil into house; etc.

Focused on:

- Options for mitigation of workplaces in large buildings to a single office.
- Is it possible to use radon as a tracer of indoor air quality?
- Communication between builders and architects.

- **Health effects of radon**

Dose assessment; radon at workplaces; lung models; biological effects; epidemiological studies; synergic effects etc.

Focused on:

- Further progress in health effects modelling.



GARRM – Scientific Topics:

- **Radon Risk Mapping and Radon Action Plans**

(including implementation of BSS)

- National strategies; Radon Action Plans; approaches to radon risk.
- Radon risk mapping on various scales including geogenic mapping and detailed measurements.
- Delineation of radon prone areas.
- How to define and use radon prone areas for the purpose of BSS (will the approach to workplaces differ from dwellings?).

- **Radon in Geological Environment**

- Methods of measurements and classification of radon risk.
- Passive and active soil gas sampling.
- Permeability as the second decisive parameter for radon potential assessment.
- Understanding radon transport mechanisms in the soil and from the soil into the buildings.
- Earthquake prediction, radon as a natural tracer.
- Radon in karst areas, mining areas, uranium prospection.

- **Two moderated panel discussions** (we expect to announce more detailed content of the discussions in advance - to enable participants involved in the discussions to prepare a short presentation as well):

- European Geogenic Radon Map and Atlas of Natural Radiation.
- Experiences and Failures in Soil-Gas Radon Measurement Practice (what parameter do we really measure?).

