

RADON 2024

Prague, Monday, 9 September 2024 - Thursday, 12 September 2024

*Faculty of Nuclear Sciences and Physical Engineering
National Radiation Protection Institute*



Programme

RADON 2024 Conference sponsors



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Monday, 9 September 2024

Methods of measurement for both radon and thoron - devices, metrological aspects: Methods of measurement for both radon and thoron - devices, metrological aspects - room 103 (9 Sept 2024, 10:30 - 19:30)

time [id]	title	presenter
10:30	<i>Conference opening</i>	
	Chair persons: <i>Eliška Fialová & Tomislav Bituh</i>	
10:40	[10] Intercomparisons of passive radon detectors at UKHSA	MILLER, Catherine
11:00	[14] Comparison and Application of Seasonal Radon Correction Factors in Slovakia	BENKOVÁ, Viktoria
11:20	[7] New metrology research project RadonNET	KOVÁŘ, Petr
11:30	<i>Lunch</i>	
	Chair persons: <i>Sofia Forkapič & Mario Caprio</i>	
13:30	[23] Determination of the Radon Progenies Activity Size Distribution	FIALOVÁ, Eliška
13:50	[27] Factors influencing outdoor radon variability: A time series study in Bratislava, Slovakia	SULTANI, Mohammad Alem
14:10	[25] Assessment and comparison of the long-term performance of Electronic Radon Integrating Monitors	WRIGHT, David
14:30	[34] Radon exhalation from soil and possible influence on high indoor radon concentrations	KNEŽEVIĆ RADIĆ, Jovana
14:40	[20] Analyses of 3 years of continual monitoring of ²²² Rn and CO ₂ concentrations in the soil and their exhalations in an area of FMPH CU in Bratislava	ECKERTOVIÁ, Terézia
14:50	[35] Assessment of indoor radon concentration and annual effective dose for workers' exposure in an arsenic concentrate warehouse	KNEŽEVIĆ RADIĆ, Jovana
15:00	[11] Evaluation of Radon and Thoron Adsorption Efficiency on Zeolites.	JAVED, MISBAH
15:10	<i>Discussion and coffee break</i>	
15:40	[26] Development of the BfS-UR1 thoron progeny calibration chamber	TUGNOLI, Francesca
16:00	[8] Indoor radon measurements in kindergartens in southern Poland	WOŁOSZCZUK, Katarzyna
16:20	[44] Didactic radon measurement method using CR-39 detector – comparison of visual image assesment and digital analysis	VANEK, Miroslav
16:30	[29] 2023 NRPI Prague international comparison of measuring instruments in a mixed field of radon - thoron gas and their short-lived decay product.	JILEK, Karel
16:50	[39] RadoNorm comparison measurement of radon and radon progeny in field conditions	NAVRATILOVA ROVENSKA, Katerina
17:10	<i>Welcome drink – Faculty terrace, 2nd floor</i>	

Tuesday, 10 September 2024

Health effects of radon: Health effects of radon - room 103 (10 Sept 2024, 09:00 - 11:30)

time	[id] title	presenter
	Chair persons: <i>Marcela Adamová & Francesco Bochicchio</i>	
09:00	[28] Interaction of radon and smoking on lung cancer risk	TOMÁŠEK, Ladislav
09:20	[5] Lung cancer mortality attributable to residential radon in Germany	HEINZL, Felix
09:40	[21] Impact of smoking on radon risk in residential areas	ECKERTOVIÁ, Terézia
09:50	[32] Practical aspects of determining the effective dose from inhalation of radon decay products	OTÁHAL, Petr
10:10	<i>Discussion and coffee break</i>	
10:40	[40] Should we re-evaluate radon risk?	BOSSEW, Peter
11:00	Discussion: Should we re-evaluate radon risk?	
11:30	<i>Lunch</i>	

National programs and projects: National programs and projects - room 103 (10 Sept 2024, 13:30 - 17:30)

time	[id] title	presenter
	Chair persons: <i>Iveta Smetanová & Peter Bossew</i>	
13:30	[19] Data driven updates to Canada's National Radon Program to more effectively address rising radon exposure	MEKARSKI, Pawel
13:50	[22] National Radon Database (NRD), especially focused on schools, fulfills goals of the Czech National Action Plan for control of public exposure to radon (RANAP)	PLOTNÁRKOVÁ, Jana ADAMOVIÁ, Marcela
14:10	[3] Proposal for the creation of national radon activity monitoring networks based on the national pre-university school network. Information, Education, Research.	CSEGZI, SANDOR
14:30	[38] Long-term effectiveness of measures to prevent and mitigate radon in houses	FOJTIKOVA, Ivana
14:50	[42] Various aspects of measurement and exposure assessment at workplaces	NAVRATILOVA ROVENSKA, Katerina
15:10	<i>Discussion and coffee break</i>	
15:40	[43] Development of the system of radiation protection against radon and radon progenies with focus on dose assessment	BOCHICCHIO, Francesco
16:00	Discussion: the complexity of implementing the dose conversion coefficients published by the ICRP in the publication Occupational Intakes	
19:00	<i>Conference dinner – Restaurant Nebozízek</i>	

Wednesday, 11 September 2024

Radon in civil engineering - room 103 (11 Sept 2024, 09:30 - 17:40)

time	[id] title	presenter
	Chair persons: <i>Katarzyna Wołoszczuk & Jens Jensen</i>	
09:30	[36] Requirements for radon barriers - current status and future	JIRÁNEK, Martin
09:50	[17] Development of a new mathematical procedure for radon diffusion coefficient measurement; application to ecofriendly construction materials	CASTAÑO CASCO, Elena
10:10	[24] The first experimental apparatus to evaluate the actual effectiveness of face masks to reduce the effective dose due to radon progeny	DI CARLO, Christian
10:30	<i>Discussion and coffee break</i>	
10:50	[4] Preliminary investigations for the design of radon remediation works	MORONI, Massimo
11:10	[30] Development and implementation of a monitoring network to real-time monitor the radon concentration levels in a large-scale Italian historical building	CAPRIO, Mario
11:30	<i>Lunch</i>	
	Chair persons: <i>Francesca Tugnoli & Pawel Mekarski</i>	
13:30	[2] Radon diagnostics in historical buildings I	NAVRATILOVA ROVENSKA, Katerina
13:50	[37] Radon diagnostics in historical buildings II - the importance of determining air exchange rate	MOZNAR, Radim
14:10	[6] A new high-resolution residential radon map for Germany using a machine learning based probabilistic model	PETERMANN, Eric
14:30	[33] Measurement of radon exhalation from clay bricks obtained by recycling waste phosphogypsum and fly ash	FORKAPIĆ, Sofija
14:50	[15] Preliminary results of radonorm project activities on in-situ measurements of radon exhalation rate from building structures	MAIORANA, Andrea DI CARLO, Christian
15:00	[16] Tests on the effectiveness of air purifiers as a method to reduce radon exposure.	PAWLOWSKA, Zuzanna
15:10	<i>Discussion and coffee break</i>	
15:40	[12] The first experimental apparatus to measure the radon exhalation rate on-site from existing building manufacts	DI CARLO, Christian
16:00	[13] Thoron interference on radon exhalation measurements on building materials samples	MAIORANA, Andrea
16:20	Radon control technologies focused on mitigation of radon exhalation from building materials - speakers: Ivana Fojtíková, Radim Možnar	FOJTÍKOVÁ, Ivana MOŽNAR, Radim
16:40	Discussion: Are the building materials as a source of radon gaining importance again?	

Thursday, 12 September 2024

Radon - information carrier, radonometry, radon as a tracer gas: Radon - information carrier, radonometry, radon as a tracer gas - room 103 (12 Sept 2024, 09:00 - 12:00)

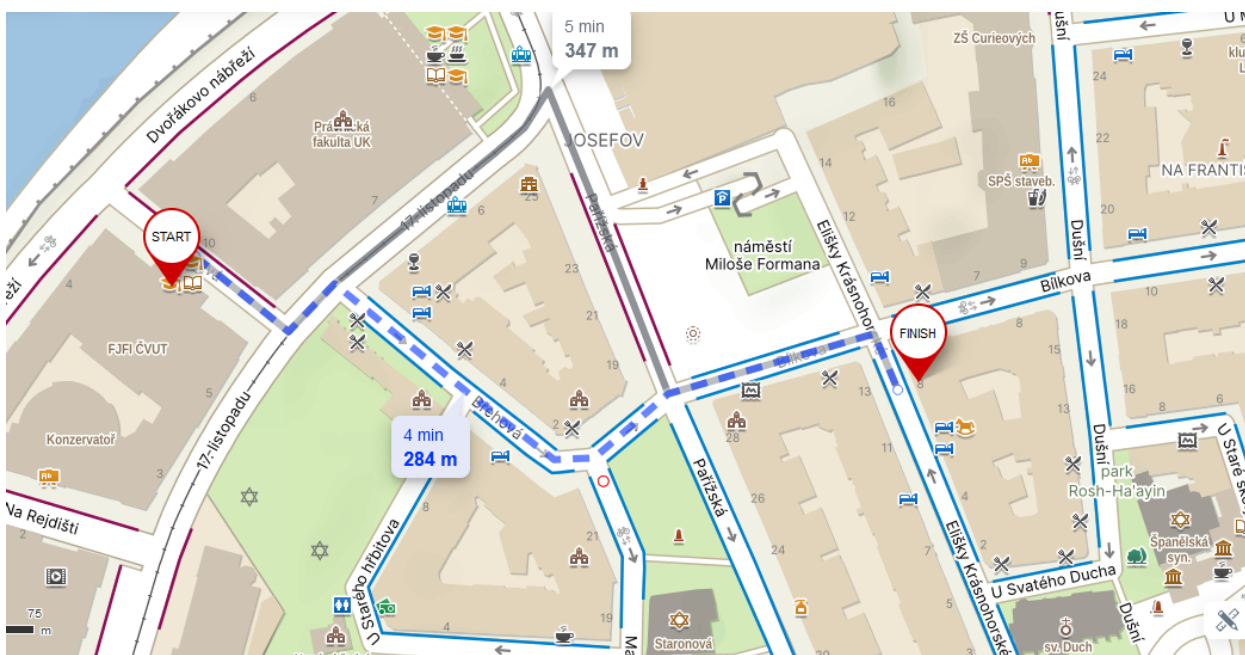
time [id]	title	presenter
	Chair persons: <i>Cecilia Jelínek & Radim Možnar</i>	
09:00	[41] Long term radon monitoring in the Bozkov dolomite caves in the context of the geological situation	ŠTĚPÁN, Václav
09:20	[18] Seasonal variation of radon and effective dose estimation in the Demänovská Cave of Liberty, Slovakia	SMETANOVÁ, Iveta
09:30	[9] Radon concentrations in Veternica cave - Croatia	BITUH, Tomislav
09:40	[31] Application of ground surface temperature measurements for indirect estimation of airflow in uranium waste rock dumps	KASCHNER, Martin
10:00	<i>Discussion and coffee break</i>	
10:20	[46] Waste rock dumps as remnants of uranium ore mining can be strong sources of radon – introduction to the Brod village case study - I	THINOVÁ, Lenka
10:40	[45] The impact of uranium waste rock dumps on the outdoor atmosphere	ADAM, Theodor
11:00	[1] Possible influence of an external source of radon on indoor radon concentration	JOHNOVÁ, Kamila
11:20	[47] Estimation of the effect of an external radon source on the irradiation inside buildings – village of Brod case study II	ŠTĚPÁN, Václav
11:40	<i>Conference summary and closing</i>	

RADON 2024 Conference lunches – how to get to the Božská Lahvice Restaurant

Every day from 12 AM to 1 PM

From the Faculty building:

- you can walk (Fig. 1) (app 4 minutes)



RADON 2024 Conference dinner – how to get to the Nebozízek Restaurant

Tuesday September 10, 2024, 7 PM

From the Faculty building:

- you can walk (Fig. 1) (app 1 hour)
- you can use the public transportation – TRAM and funicular (Fig. 2a, 2b) (app half an hour)
- you can combine both paths

our restaurant is located at the first funicular stop Nebozízek

Fig. 1



Fig. 2a



and 2b

