

Session Program

9-12 Sept 2024



RADON 2024

Radon in civil engineering

Faculty of Nuclear Sciences and Physical Engineering, room 103
Břehová 78/7 115 19 Prague 1 Czech Republic GPS. 50.0910372N, 14.4163028E

Wednesday 11 September

09:25

Radon in civil engineering

Session |

Location: Faculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
Requirements: 50.0910372N, 14.4163028E

09:30–09:50

Requirements for radon barriers - current status and future

Speaker

Prof. Martin Jiránek

Location

Faculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
 GPS. 50.0910372N, 14.4163028E

09:50–10:10

Development of a new mathematical procedure for radon diffusion coefficient measurement; application to ecofriendly construction materials

Speaker

Elena Castaño Casco

Location

Faculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
 GPS. 50.0910372N, 14.4163028E

10:10–10:30

The first experimental apparatus to evaluate the actual effectiveness of face masks to reduce the effective dose due to radon progeny

Speaker

Christian Di Carlo

Location

Faculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
 GPS. 50.0910372N, 14.4163028E

10:30–10:50

Discussion and coffee break

10:50–11:10

PRELIMINARY INVESTIGATIONS FOR THE DESIGN OF RADON REMEDIATION WORKS

Speaker

Massimo MORONI

Location

Faculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
 GPS. 50.0910372N, 14.4163028E

11:10–11:30

Development and implementation of a monitoring network to real-time monitor the radon concentration levels in a large-scale Italian historical building

Speaker

Mario Caprio

Location

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 GPS. 50.0910372N, 14.4163028E

11:30-13:30 **Lunch**13:30-13:50 **Radon diagnostics in historical buildings I****Speaker**

Katerina Navratilova Rovenska

LocationFaculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
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13:50-14:10

Radon diagnostics in historical buildings II - the importance of determining air exchange rate**Speaker**

Radim Moznar

LocationFaculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
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14:10-14:30

A new high-resolution residential radon map for Germany using a machine learning based probabilistic model**Speaker**

Eric Petermann

LocationFaculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
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14:30-14:50

Measurement of radon exhalation from clay bricks obtained by recycling waste phosphogypsum and fly ash**Speaker**

Sofija Forkapić

LocationFaculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
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14:50-15:00

PRELIMINARY RESULTS OF RADONORM PROJECT ACTIVITIES ON IN-SITU MEASUREMENTS OF RADON EXHALATION RATE FROM BUILDING STRUCTURES**Speakers**

Andrea Maiorana, Christian Di Carlo

LocationFaculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
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15:00-15:10

Tests on the effectiveness of air purifiers as a method to reduce radon exposure.**Speaker**

Zuzanna Pawlowska

LocationFaculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
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15:10-15:40 **Discussion and coffee break**

15:40-16:00

The first experimental apparatus to measure the radon exhalation rate on-site from existing building manufacts

Speaker

Christian Di Carlo

Location

Faculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
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16:00-16:20

THORON INTERFERENCE ON RADON EXHALATION MEASUREMENTS ON BUILDING MATERIALS SAMPLES

Speaker

Andrea Maiorana

Location

Faculty of Nuclear Sciences and Physical Engineering, room 103, Břehová 78/7 115 19 Prague 1 Czech Republic
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16:20-16:40

Radon control technologies focused on mitigation of radon exhalation from building materials - speakers: Ivana Fojtíková, Radim Možnar

16:40-17:40

Discussion: Are the building materials as a source of radon gaining importance again?

17:40