



**9th Conference on Protection against Radon
at Home and at Work
16-20 September 2019, Prague**

www.radon2019.cz
radon@radon2019.cz

Organized jointly by

- Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering
- National Radiation Protection Institute

Venue

Main Lecture Hall of the Faculty of Sciences and Physical Engineering,
Břehová 7, Prague 1, Czech Republic

Important Dates

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| Deadline for abstract submission | 15.6. 2019 |
| Abstract acceptance | 10.7. 2019 |
| Paper submission | 30.9. 2019 |
| Deadline for comparison measurement registration | 12.8. 2019 |
| Early registration fee (bank transfer must be carried out before the date) | 27.7. 2019 |

Publication

The peer reviewed manuscripts will be published in the Special Issue of Radiation Protection Dosimetry in 2020 Special Issue.

Excursion – Field trip

Excursion is planned as a whole day on Friday, 20th.



Fees

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| Early registration and payment | 320 EUR |
| Late/on-site registration and payment | 370 EUR |
| Students (master, PhD, doctoral)* | 180 EUR |
| Comparison measurement | free of charge |
| Excursion | 70 EUR / on site payment 90 EUR |

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

VAT is 21% and is included in the fee.

The fee contents

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

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:

- A) Passive detectors - mixed field of radon and thoron gas.**
- B) Active monitors and passive detectors - radon short-lived decay products.**



Registration should be done by registration form www.radon2019.cz before 12.8.2019. Inter-comparison is organized for free for conference participants.

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:

- Radon and thoron monitoring on workplaces incl. personal monitoring.
- Measurement in mixed radon+thoron fields.
- Measurement of radon and thoron progenies.
- QA/QC of radon and thoron measurements.

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



Other relevant topics: Application of ionizing radiation; diagnostic measurements in dwellings; earthquake predictions; the role of radon and geophysical measurement in mineral deposits prospecting methods; modelling of air mass transport; diffusion coefficient and ventilation rate measurements; etc..

Focused on:

- Multiparametrical models and long term measurements analysis.

- **Radon in civil engineering**

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:

- Case studies incl. optimization of radon remedial actions and preventive measures.



- **National programs and projects**

Communication campaigns and strategies; national radon programs; delineation of "radon prone areas"; motivation for remedy; international collaboration; regulation of radon on workplaces etc..



Focused on:

- Reflection of the new dose conversion factor for radon in regulation of exposure in residential buildings and in workplaces.
- Optimization process in protection against elevated exposure from radon (methodology, case studies (workplaces, mitigation of residential houses)).

- **Health effects of radon**

Lung cancer and other health issues related to long-term radon exposure; epidemiological studies; synergic effects etc.



Focused on:

- Dose conversion coefficient of radon.

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