

Second circular

14th

GARRM

RADON v.o.s. and Czech Geological Survey organize the

14th INTERNATIONAL WORKSHOP

GARRM

(on the GEOLOGICAL ASPECTS OF RADON RISK MAPPING)

September 18th – 20th(21st), 2018

Prague, Czech Republic

**+ RIM – Radon Intercomparison
Measurements at Radon Reference Sites
September 17th, 2018**

**(it is certainly possible to participate both in the Workshop and in
RIM, or only in the Workshop or only in the RIM)**

WEBPAGE: www.radon.eu/workshop2018

ORGANIZING COMMITTEE:

Workshop: Matej NEZNAL (RADON), Ivan BARNET & Petra PACHEROVA (CGS)
RIM: Milan MATOLIN (Charles University in Prague), Matej NEZNAL (RADON)

IMPORTANT DATES AND DEADLINES

Second announcement: April/May 2018

Deadline for paper submission: June 15, 2018

Deadline for lower registration fee: June 15, 2018

PROGRAMME

September 17th (Monday): Registration for RIM (in the field in the morning, will be arranged via e-mail with all participants / participating groups) + Field measurements
Registration for Workshop (18,00-21,00) - venue

September 18th (Tuesday): Registration for Workshop (8,00-9,30), Sessions

September 19th (Wednesday): Sessions, workshop dinner

September 20th (Thursday): Sessions, Roundtable discussions, conclusions

September 21st (Friday): Field excursion, optional

WORKSHOP GARRM - GENERAL TOPICS

RADON RISK MAPPING AND RADON ACTION PLANS

- **NATIONAL STRATEGIES, RADON ACTION PLANS, APPROACHES TO RADON RISK; RADON RISK MAPPING ON VARIOUS SCALES INCLUDING GEOGENIC MAPPING & DETAILED MEASUREMENTS; DELINEATION OF RADON PRONE/PRIORITY AREAS**

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**

Due to our common experiences from last workshops, we would like to ask you for oral presentations (15 min) or posters.

For the closing day of the workshop, we would like to prepare meaningful roundtable discussions (probably two parallel each time), where we would discuss following questions:

**EUROPEAN GEOGENIC RADON MAP AND ATLAS OF NATURAL RADIATION;
RADON & TECTONICS;
SPATIAL VARIABILITY OF SOIL GAS PERMEABILITY;
RADON POTENTIAL – TEMPORAL CHANGES, SEASONAL VARIATION.**

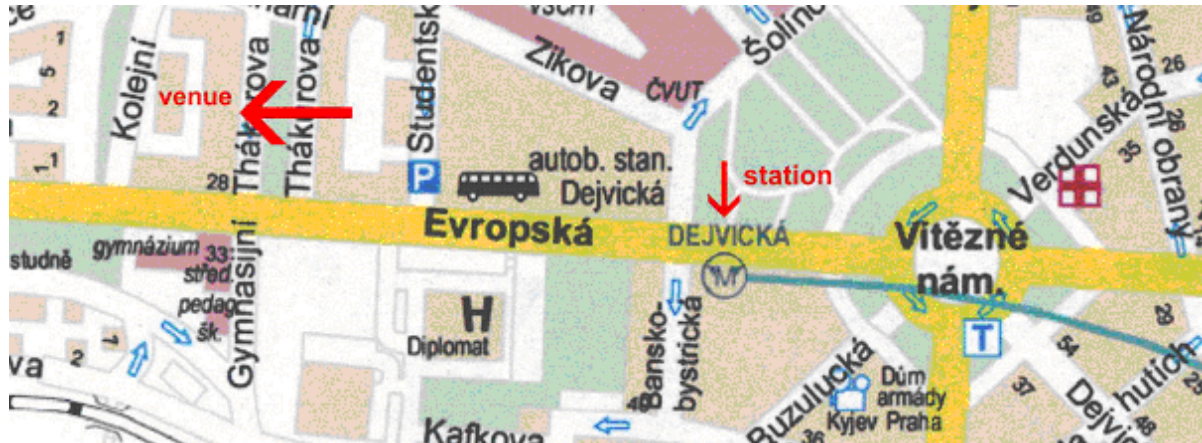
VENUE

The conference will be held in the beautiful city of Prague, capital of the Czech Republic, at the conference hall of the Masarykova College, the Czech Technical University (the same as in 2006). The Masarykova College is located in the western part of central Prague, near the Prague Castle, the dominant symbol of Prague, in the direction to the Ruzyne airport, close by to the Dejvicka underground station (line A) and also to the DAP hotel, where we organized the workshop in 2010, 2012 and 2014. It is also well served by tram and buses. The best way to reach the venue from the airport is to use the bus No. 119, which goes from the airport (it has a stop at terminal 1 and 2 as well) to the Veleslavin underground station and then use the underground line A (two stations) to the mentioned Dejvicka underground station.



Masarykova college

Thakurova street No.1, 160 41
Prague 6



ACCOMMODATION

On site accommodation (i.e. directly at the Masarykova College, medium/low price) is possible but limited in number.

You can try to book via e-mail: mkrezervace@suz.cvut.cz or via booking.com

The direct neighbourhood has also a large number of excellent hotels, pensions, hostels, which you can find via internet (we recommend to concentrate on accommodation in the central parts of Prague – Prague 1 and/or Prague 6).

RIM - GENERAL INFORMATION

Compare your radon measurement with the international community in friendly field environment - comparison measurement of radon in soil gas at radon reference sites in the Czech Republic

Radon comparison measurement at reference sites in the Czech Republic, RIM 2018, will be organized as an independent part of the International Workshop on the Geological Aspects of Radon Risk Mapping on September 17th, 2018. Comparison measurements at reference sites serve for verification of field radon measurements performed by single organizations.

The intercomparison measurement will be organized at two reference sites (chosen from three reference sites established in 2000, located 60 km SW of Prague near the city Milín in the Czech Republic, accessible for cars). Radon reference sites are situated on meadows, their soil cover enables soil gas sampling at the depth of 0.8 m, and their mutual total distance is 12 km. Each reference site implies 10 stabilized stations, which are marked by numbers. Single reference sites differ in radon activity concentration in soil gas, the radon distribution within the reference site is relatively homogeneous.

Radon comparison measurements at reference sites are organized for single participants or groups of participants. ***Results of tests will be anonymous, each participant (group) will be denoted by a code.***

During this RIM we would like to focus not only on comparison of resulting soil-gas radon concentrations, but on the sampling methods themselves.

Benefits of participation in radon comparison measurement are:

- Radon comparison with international expert community.
- The use of two well documented radon reference sites fulfilling geological requirements.
- Based on more than 25-year experience in periodical radon comparison measurement 1992-1999, and 2000-2018.
- Tests by computer programme TestMOAR based on statistics, compiled by the Institute of Applied Mathematics and Computer Technique, Faculty of Science, Charles University in Prague.

Working plan for the comparison measurement: Instruction (via e-mail), transport from Prague (only if necessary, we recommend to arrange the transport to the reference sites on an individual basis), meeting at the reference area, measurement of radon in soil gas, reporting of resultant data (kBq/m³) from measured stations. Data processing and evaluation by TestMOAR will follow after all participants provide the data. For those who will collect a lower number of measurements at reference sites, programme TestMOAR accepts their number of data. Organizations and individuals who will deliver their resultant radon data later (by post or e-mail) will be also included in final testing.

There is no electrical power supply at radon reference sites, however a power supply generator can be provided on the request. We expect we will meet with all participants in the field in the morning, but transport from Prague can be provided as well.

Accommodation: Please, take into consideration, that this year "only" one-day intercomparison is hold. Suitable accommodation, just in the area of radon reference sites, is available in "Hotel u Milina" (www.hotelumilina.cz).

Organizers of the RIM 2018 offer the consultation for your participation in radon comparison measurement through e-mail address matolin@natur.cuni.cz or radon@comp.cz

More detailed information will be available at the workshop webpage, details will be discussed with all participants of RIM via e-mail.

Workshop field excursion

Workshop field excursion will be organized on Friday at the end of the workshop (an optional activity with a special fee).

Expected time of departure – Friday, September, 21st, at about 8,30 in the morning; expected time of arrival to Prague - Friday, September 21st at about 18,00 – 19,00 in the evening.

More detailed information will be available at the workshop webpage and during the registration.

REGISTRATION FEE and INSTRUCTION for PAYMENT

The registration fee for the workshop (**390 €** if paid after June 15, 2018, **340 €** if paid before) covers the workshop program, the book of abstracts, refreshments during the sessions and the workshop dinner. Accommodation is not included in the registration fee.

The fee for the field excursion – optional activity – (**90 €** if paid after June 15, 2018, **80 €** if paid before) covers the whole excursion.

The fee for RIM – (**350 €** if paid after June 15, 2018, **310 €** if paid before) means a fee for an independent participant or for two participants in one measuring group. The fee for each another one (third, fourth ..., participant in the same measuring group) is **60 €**. Accommodation is not included in the registration fee.

In order to confirm your registration, a proof of payment (photocopy of bank transfer) should be sent to RADON v.o.s. (via e-mail: radon@comp.cz), accepting the given conditions of payment and cancellations. Participants are kindly asked to indicate clearly the name of the person for whom the services are booked in the bank document sent. Payments can only be accepted in Euros. Only total payment guarantees registration, i.e. any bank expenses for issuing a transfer should be paid in full by participants.

Cancellation and requests for refunds should be made in writing and sent to RADON v.o.s.. Those made before 30 August 2018, will be refunded at 80 % of the original sum. After that date no refunds will be possible. All bank charges will be deducted from the refund. Refunds will be issued after the Workshop (15th October 2018).

Payment - by bank transfer (the payee name ... RADON v.o.s.)

The bank name: KOMERCNI BANKA

The bank address: POBOCKA PRAHA - PODVINNY MLYN
EXP. PALMOVKA,
ZENKLOVA 12/351
180 00 PRAHA 8
CZECH REPUBLIC

Account number: 35-6485850237/0100

Swift (BIC): KOMBCZPPXXX

IBAN code: CZ9501000000356485850237

Var.symbol/details of payment: 340118

There would be also a possibility to pay cash at the registration, but those participants should also send us the registration form in advance (the number of participants, especially in case of RIM and the field excursion, is limited!).

CALL FOR PAPERS AND INSTRUCTIONS FOR AUTHORS

The language of the conference will be English.

Authors are kindly asked to send their contributions (extended abstracts) as camera ready file, e-mail attachment (best in Word 6. or higher, for high quality print, black+white, A4 format, 2.5 cm margins on all sides). Please do not number the pages. The papers should not extend 7 pages including figures, tables and references.

Contributions (extended abstracts) should be submitted by the 15th of June, 2018. The volume of the extended abstracts will be made available during the workshop.

For further contacts, please, send us the registration form (via e-mail, or – the easiest way - directly through the workshop webpage). Please fill in your e-mail with attention as it is the most effective way how to contact you (participants without e-mail will be contacted via fax or post mail).

REGISTRATION FORM

I shall take part in - the workshop - field excursion - RIM

Name.....Mr/Mrs

Full address.....
.....
.....

Fax.....

Phone.....

e-mail.....

Title of my contribution(s):

.....
.....
.....

Names of participants in one measuring group (in case of RIM participation):

.....
.....

Contact addresses of the organizing committee:
Matej Neznal, RADON v.o.s. corp., 18000 Prague 8, Novakovych 6, Czech Republic,
phone +420 266314112, e-mail radon@comp.cz or matej@radon.eu