

## 13<sup>th</sup> GARRM Workshop program

<b>Thursday, September 15</b>	
	<b>Radon Risk Mapping and Radon Action Plans (including implementation of BSS)</b>
8.00 - 8.50	Registration
8.50 - 9.00	GARRM Welcome
9.00 - 9.15	<b>Definition and estimation of radon prone areas – a review</b> <i>Peter Bossew, Bernd Hoffmann, Ana Paula Fleury de Macedo Soares</i>
9.15 - 9.30	<b>Mapping of radon classes in the frame of the new BSS</b> <i>Boris Dehandschutter</i>
9.30 - 9.45	<b>Approaches to Radon Prone Areas in Germany</b> <i>Bernd Hoffmann, Peter Bossew</i>
9.45 - 10.00	<b>Current status of Radon Mapping in Romania linked with new BSS</b> <i>Botond Papp, Alexandra Cucos Dinu, Tiberius Dicu, Mircea Moldovan, Betty Burghеле, Ancuta Tenter, Monica Zeciu, Dorel Bobos, Constantin Cosma</i>
10.00 - 10.15	<b>Discussion of methodologies for a new radon map, based on the results of a pilot study in Upper Austria</b> <i>Valeria Gruber, Wolfgang Ringer, Gernot Wurm, Corina Schleicher, Sabrina Kuchling, Harry Friedmann, Gerhard Schubert</i>
10.15. -10.30	<b>Geogenic radon potential (GEORP) in Poços de Caldas - Brazil</b> <i>Nivaldo Carlos Da Silva, Marcelo Terek Santos, Fabiano Cabañas Navarro, Rodrigo Jorge Oliveira</i>
10.30 - 11.00	Coffee break, posters
11.00 - 11.15	<b>Radon mapping in some Transylvanian Counties, Romania</b> <i>Tamás Néda, Erika Tamási, Alexandru Szakács, Kinga Szacsvai, Szilárd Poszet, Ildikó Mócsy</i>

11.15 - 11.30	<b>Studying the influence of radon data and geology on JDS maps by using Southwest England data</b> <i>Z. Daraktchieva, A. M. P. J. Ferreira</i>
11.30 - 11.45	<b>Indoor radon and Geogenic Radon Potential in a volcanic island</b> <i>J.G. Rubiano, H. Alonso, J. González-Guerra, M.A. Arnedo, A. Tejera, P. Martel</i>
11.45 - 12.00	<b>A new probabilistic Swiss indoor radon map based on k-nearest-neighbors interpolation and geological classification</b> <i>Georg Kropat, Francois Bochud, Christophe Murith, Martha Palacios, Sébastien Baechler</i>
12.00 - 12.15	<b>226Ra, 222Rn and permeability of Belgian soils in relation with indoor radon risk</b> <i>François Tondeur, Caroline Licour, Isabelle Gerardy, Nadia Medaghri, Dubois Nancy, Renaud Perreaux, Nathalie Gerardy, Dominique Christiaens</i>
poster presentation 12.15 - 12.30	<b>Radiation exposure of population from 222Rn and other natural radionuclides around Mochovce nuclear power plant</b> <i>Martin Bulko, Karol Holý, Žofia Pohronská, Monika Müllerová</i>
	<b>Mapping methods of radon risk in Russia</b> <i>Petr Miklyaev, Tatiana Petrova, Albert Marennyy, Andrey Tsapalov, Sergey Okhrimenko, Aleksey Klimshin, Olga Petrova</i>
	<b>The geogenic radon potential map of the aspiring "Buzău Land" Geopark</b> <i>M. Moldovan, B.D. Burghele, C.A. Roba, C. Buterez</i>
	<b>Mapping indoor radon concentrations using random forests and residual kriging with geology and TRMS data</b> <i>No-Wook Park, Yongjae Kim, Byung-Uck Chang</i>
	<b>Development of the Environmental Radiation Exploration Vehicles (EREV) optimized for car-borne terrestrial gamma radiation survey in Korea</b> <i>Byung-Uck Chang, Yongjae Kim, Jaeho Jang, Jaewoo Park</i>
12.30 - 14.00	Lunch break

14.00 - 14.15	<b>A comparison of radon indoor measurements with interpolated radon soil gas values using the inverse weighting method</b> <i>Franz Kabrt, Andreas Baumgartner, Harry Friedmann, Wolfgang Ringer, Franz Josef Maringer</i>
14.15 - 14.30	<b>Swedish airborne radiometric data - comparison with geochemical data and use in generalized radon potential map</b> <i>Cecilia Jelinek</i>
14.30 - 14.45	<b>Problems when defining high- and low-risk zones on Tallinn Rn-risk map</b> <i>K. Täht-Kok, M. Karimov, S. Nirgi, V. Petersell, M. Shtokalenko</i>
14.45 - 15.00	<b>Radon risk from bedrock for municipalities with extended competence</b> <i>Jaroslav Slovák</i>
15.00 - 15.15	<b>Uranium in soil and terrestrial gamma dose rate as proxies for the indoor radon risk: situation in Belgium</b> <i>François Tondeur, Giorgia Cinelli, Boris Dehandschutter</i>
15.15 - 15.30	<b>Towards a multivariate geogenic radon hazard index</b> <i>Peter Bossew, Giorgia Cinelli, Tore Tollefsen, Marc De Cort</i>
15.30 - 16.00	Coffee break, posters
16.00 - 18.00	<b>Moderated panel discussions - European Geogenic Radon Map and Atlas of Natural Radiation</b>
	<b>Friday, September 16</b>
	<b>Radon in Geological Environment</b>
8.45 - 9.00	<b>Influence of karstic environment on geogenic radon potential: first experimental results on the Fourbanne site (Jura)</b> <i>Geraldine Ielsch, Zakaria Saâdi, Catherine Bertrand, Gilles Alcalde, Evelyne Barker</i>

9.00 - 9.15	<p><b>Investigating if NAPL vapours capture soil radon in case of ancient spills</b>  <i>Gabriele De Simone, Francesca Pompilj, Carlo Lucchetti, Gianfranco Galli, Paola Tuccimei, Pierpaolo Curatolo, Riccardo Giorgi, Calì Angiolo</i></p>
9.15 - 9.30	<p><b>Using soil radon deficit and geoelectrical data as proxy indicators for residual NAPL contamination</b>  <i>Francesca Pompilj, Gabriele De Simone, Pierluigi Friello, Carlo Lucchetti, Paola Tuccimei, Gianfranco Galli, Pierpaolo Curatolo, Riccardo Giorgi, Angiolo Calì</i></p>
9.30 - 9.45	<p><b>The radon-deficit technique to trace NAPL contamination in the subsoil of Kharagpur, West Bengal (India)</b>  <i>Mauro Castelluccio, Debashish Sengupta, Paola Tuccimei, Sudha Agrahari</i></p>
9.45 - 10.00	<p><b>Comparative study of radon and thoron measurements in Romanian karst caves</b>  <i>Bety-Denissa Burghele, Alexandra Cucos, Botond Papp, Dobromir Pressyanov, D.Dimitrov, I. Dimitrova</i></p>
10.00 - 10.30 poster presentation	<p><b>Estimation of radon concentration in groundwater samples and from soil in the Tamanghasset district environment, Algeria</b>  <i>Mounir Aït-Ziane, Farid Boucheneb, Tayeb Badahmaoui, Khaled Kafi-Djaloul, Adnane Mostefaoui, Mohammed El Hocine Cherchali, Zohra Lounis-Mokrani</i></p>
	<p><b>Radon concentrations in selected thermal waters in Slovakia</b>  <i>Pavol Blahušiak, Karol Holý, Monika Müllerová, Iveta Smetanová</i></p>
	<p><b>Soil radon exhalation measurement</b>  <i>Monika Müllerová, Karol Holý, Pavol Blahušiak, Martin Bulko</i></p>
	<p><b>Complex monitoring study of radon field generation in soils under various geological and climatic conditions in Russia</b>  <i>Albert Marennyy, Petr Miklyaev, Andrey Tsapalov, Tatiana Petrova, Aleksey Klimshin, Olga Petrova</i></p>
	<p><b>Detailed spatial analysis of ambient gamma dose equivalent rate of a granitic area, Velence Mountains, Hungary</b>  <i>Silvana Beltran, Katalin Zsuzsanna Szabó, Gyozo Jordan, Csaba Szabó</i></p>
	<p><b>Radon background correlation to Car-borne gamma-ray spectrometry</b>  <i>Bi-hong Li, Shi-li Lu, Dan Zhao, Long-quan Yang</i></p>
	<p><b>Measurement of <sup>222</sup>Rn in soil gas: a comparison between techniques</b>  <i>F. Domingos, A. Pereira</i></p>

10.00 - 10.30 poster presentation	<b>Radon emanation of sedimentary rocks: a case study in the Lusitanian Basin (western Portugal)</b> <i>S.L.R. Sêco, F. Domingos, A.J.S.C. Pereira, L.V. Duarte</i>
	<b>Radon and other natural radionuclides in water from private water sources in the Czech Republic</b> <i>Radek Cerny, Petr Otahal</i>
	<b>Indoor radon levels in the built environment of Selçuk University campus</b> <i>Mehmet Erdogan, Kaan Manisa</i>
	<b>Radon concentration in Transylvanian (Romania) soil</b> <i>M. Moldovan, A. Cucos Dinu, T. Dicu, B.D. Burghеле, A. Tenter, M. Zeciu, D. Bobos, B. Papp, T. Sferle, C. Cosma</i>
	<b>Search and mapping of the old buried tailings with radioactive wastes at the urban territory</b> <i>Oleksandr Molchanov, Yuriy Soroka, Aleksey Podrezov, Michael Soroka</i>
10.30 - 11.00	Coffee break, posters
11.00 - 11.15	<b>Dynamics of soil radon (<math>^{222}\text{Rn}</math>) in winter under a temperate deciduous stand in Fukushima, Japan</b> <i>Ryoko Fujiyoshi, Misato Ohno, Kazumasa Okamoto, Kikuo Umegaki</i>
11.15 - 11.30	<b>Time Series analysis of Soil Radon Gas</b> <i>Muhammad Rafique</i>
11.30 - 11.45	<b>Signal decomposition and analysis for the identification of periodic and anomalous phenomena in Radon time-series</b> <i>Carlo Sabbarese, Fabrizio Ambrosino, Filomena De Cicco, Mariagabriella Pugliese, Maria Quarto, Vincenzo Roca</i>
11.45 - 12.00	<b>The influence of weathering on <math>^{222}\text{Rn}</math> emanation and exhalation: a case study in metasediments of central Portugal</b> <i>F. Domingos, A. Pereira</i>
12.00 - 12.15	<b>The Spanish strategy to estimate annual-averaged soil radon levels for the next amendment of Building Regulations</b> <i>LI. Font, M. García-Talavera, H. Alonso, M.A. Arnedo, J. Bach, J.A. Carrasco, M. A. Duch, I. Fuente, J.G. Rubiano, J. Garcia-Orellana, J. L. Gutiérrez, A. Hierro, F.J. López-Acevedo, P. Martel, V. Moreno, E. Navarro, L. Quindós, A. Ramírez, V. Rodellas, M.D. Rodríguez-González, C. Sainz, A. Sánchez, E. Sanz, A. Tejera, A. Vargas</i>

12.15 - 12.30	<b>Improving measurements of soil gas permeability for environmental monitoring</b> <i>Carlo Lucchetti, Paola Tuccimei, Gabriele De Simone, Tullio Ricci, Alessandra Sciarra, Anthony Finizola</i>
12.30 - 14.00	Lunch break
14.00 - 14.15	<b>Radon and gamma dose rate at faults in metamorphic rocks of Blanice Graben (CZ)</b> <i>Ivan Barnet</i>
14.15 - 14.30	<b>Radon Profiles in Soil on Mine Dump</b> <i>Joash Ongori, Robert Lindsay</i>
14.30 - 14.45	<b>Radon in spring waters in the region of Seydişehir of Konya province, Turkey</b> <i>Mehmet Erdogan, Kaan Manisa</i>
14.45 - 15.00	<b>Geogenic and anthropogenic influences on indoor radon in the Techa River region</b> <i>Iliya Yarmoshenko, Georgy Malinovsky, Alexey Vasilyev, Aleksandra Onishchenko, Andrian Seleznev</i>
15.00 - 15.15	<b>Radon dose assessment in coal mines of Azad Kashmir</b> <i>Muhammad Rafique</i>
15.15. - 15.45	Coffee break, posters
15.45. - 17.15	<b>Moderated panel discussions - Experiences and Failures in Soil-Gas Radon Practice (what parameter do we really measure)</b>
	<b>Workshop summary and closing ceremony</b>