



THE HENRYK NIEWODNICZAŃSKI  
INSTITUTE OF NUCLEAR PHYSICS  
POLISH ACADEMY OF SCIENCES



# PROGRAMME

## 2<sup>nd</sup> International Conference



under the official patronage  
of the President of the National Atomic Energy Agency



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**REGISTRATION at Hotel GALAXY\*\*\*\***

**Kraków, Gęsia str. 8**




**Sunday, May 24**      17:00 , 20:00

**Monday, May 25**      from 08:15



**MONDAY, May 25, 2015**

09:00 ÷ 09:20 **OPENING CEREMONY**

**SESSION 1 Chairpersons: Miroslaw JANIK, Luis S. Quindos PONCELA**




09:20 ÷ 10:00		<b>INVITED PRESENTATION: Vanja RADOLIĆ</b> The radon levels in Istrian Peninsula
10:00 ÷ 10:20	<b>A01</b>	<b>Peter BOSSEW</b> Radon concentrations in schools and in dwellings: a study on association, co-regionalisation and bivariate modeling
10:20 ÷ 10:40	<b>A02</b>	<b>Fabio BARAZZA</b> The possible impact of weather conditions on indoor radon concentrations
10:40 ÷ 11:00	<b>A03</b>	<b>Zdenka STOJANOVSKA</b> Dose assessment due to radon exposure in dwellings, schools and kindergarten
11:00 ÷ 11:20		<b>COFFEE BREAK</b>
11:20 ÷ 11:40	<b>A08</b>	<b>Zdenka STOJANOVSKA</b> Long-term measurements of radon, thoron and their airborne progeny in 25 schools in Republic of Srpska
11:40 ÷ 12:00	<b>A05</b>	<b>Stephanie LONG</b> Factors underlying persistently high radon levels in a house in a karst limestone region of Ireland
12:00 ÷ 12:20	<b>A06</b>	<b>Sarata SAHOO</b> Natural radioactivity survey on soils originated from selected sites of Thailand as potential sites for nuclear power plants from radiological viewpoint
12:20 ÷ 12:40	<b>A17</b>	<b>Guo LU</b> Upgrade of the unattended battery-operated thoron progeny measurement device
12:40 ÷ 13:00	<b>A51</b>	<b>Chingiz ALIYEV</b> Indoor and outdoor radon levels in Azerbaijan
13:00 ÷ 14:00		<b>LUNCH</b>

**SESSION 2 Chairpersons: Carlos SAINZ FERNANDEZ, Bo CHEN**



14:00 ÷ 14:20	<b>A09</b>	<b>Istvan CSIGE</b> Influence of geogas seepage on indoor radon
14:20 ÷ 14:40	<b>A10</b>	<b>Dominik GRZĄDZIEL</b> Air conditioning impact on the dynamics of effective dose due to radon and its short-lived decay products
14:40 ÷ 15:00	<b>A11</b>	<b>Jose Luis GUTIERREZ VILLANUEVA</b> Contribution of radon progeny to the external gamma dose: the experience at LNR
15:00 ÷ 15:20	<b>A12</b>	<b>Jamal AL-HUBAIL</b> Comparative analysis of radon concentrations derived from separate indoor radon surveys conducted in dwelling and school sites in Kuwait
15:20 ÷ 15:40	<b>A14</b>	<b>Josef IRLINGER</b> Development of an electronic monitor for the determination of individual radon and thoron exposure
15:40 ÷ 16:00		<b>COFFEE BREAK</b>
16:00 ÷ 16:20		<b>Eric HULBER</b> Gold Sponsor's presentation – Radosys Dosimetric Microscopy, Hungary
16:20 ÷ 16:40	<b>A15</b>	<b>Thomas STREIL</b> PoCAMon - Personal Online Continuous Air Monitor not only for radon and thoron decay products
16:40 ÷ 17:00	<b>A13</b>	<b>Wang NANPING</b> The characteristics of <sup>222</sup> Rn/ <sup>220</sup> Rn concentration from soil gas in Shenzhen City (Southern part of China)

**TUESDAY, May 26, 2015**

**SESSION 3 Chairpersons: Zora S. ZUNIČ, Peter BOSSEW**

09:00 ÷ 09:40		<b>INVITED PRESENTATION: Luis S. QUINDOS PONCELA</b> Radon: A good tracer and an invisible enemy
09:40 ÷ 10:00	<b>A18</b>	<b>Krzysztof FORMALSKI</b> Radon and the lung cancer - a real effect or just an assumption?
10:00 ÷ 10:20	<b>A19</b>	<b>Iliia YARMOSHENKO</b> Lung cancer mortality and radon exposure in Russia
10:20 ÷ 10:40	<b>A20</b>	<b>Azeddine MORTASSIM</b> Radiation doses to doctors, nurses and patients due to radon short-lived progeny from the inhalation of air in urban health centres
10:40 ÷ 11:00	<b>A..</b>	<b>Predrag UJIC</b> High indoor radon variation induced by geological factors
11:00 ÷ 11:20		<b>COFFEE BREAK</b>
11:20 ÷ 11:40	<b>A22</b>	<b>Stanisław CHAŁUPNIK</b> Simultaneous measurements of radon and thoron decay products in air
11:40 ÷ 12:00	<b>A23</b>	<b>Mirosław JANIK</b> Analysis of simultaneous time series of indoor and outdoor radon concentrations, meteorological and seismic data
12:00 ÷ 12:20	<b>A24</b>	<b>Thomas NEUGEBAUER</b> Radon emission rate and analysis of its influencing parameters
12:20 ÷ 12:40	<b>A25</b>	<b>Zakaria SAADI</b> Numerical modelling of radon transport from soil to a house basement under variable weather conditions
12:40 ÷ 13:00	<b>A26</b>	<b>Mirosław ZIMNOCH</b> Temporal variability of near ground atmospheric radon over central Europe
13:00 ÷ 14:00		<b>LUNCH</b>

**SESSION 4 Chairpersons: Concepción DUEÑAS, Jadwiga MAZUR**

14:00 ÷ 14:20	<b>A27</b>	<b>Peter BOSSEW</b> The suitability of ambient gamma dose rate as predictor of the geogenic radon potential
14:20 ÷ 14:40	<b>A28</b>	<b>Valeria GRUBER</b> Mapping radon and defining radon prone areas: evaluation of possible methods for Austria
14:40 ÷ 15:00	<b>A29</b>	<b>Geraldine IELSCH</b> Mapping of indoor radon and terrestrial gamma radiation levels in France: geostatistical modeling
15:00 ÷ 15:20	<b>A30</b>	<b>Giorgia CINELLI</b> Estimation of the geogenic radon potential using uranium concentration in bedrock and soil permeability data, integrated with geological information
15:20 ÷ 15:40	<b>A32</b>	<b>Tadeusz PRZYLIBSKI</b> Radon research in Poland: a review
15:40 ÷ 16:00		<b>COFFEE BREAK</b>
16:00 ÷ 16:10		<b>Antonio PARRAVICINI</b> <i>Silver Sponsor's presentation – mi.am Radon Detectors, Italy</i>
16:10 ÷ 16:30	<b>A31</b>	<b>Sofija FORKAPIC</b> QA/QC of radon measurements in accredited laboratories
16:30 ÷ 16:50	<b>A33</b>	<b>Sofija FORKAPIC</b> Results of the 2015 national indoor radon intercomparison measurements
16:50 ÷ 17:10	<b>A34</b>	<b>Francesco CARDELLINI</b> Metrological aspects of international intercomparison of passive radon detectors under field conditions at Marie Curie Tunnel in Lurisia (Italy)

**WEDNESDAY, May 27, 2015**      *Conference tour*

**MEETING PLACE: Hotel GALAXY\*\*\*\* at 09:00**

**Option 1.**

**Wieliczka Salt Mine**



**Option 2.**

**Museum Collegium Maius of Jagiellonian University**




Muzeum Uniwersytetu Jagiellońskiego  
Collegium Maius

14:00 ÷ 15:00  **LUNCH at Hotel GALAXY\*\*\*\***

**SESSION 5 Chairpersons: Małgorzata WYSOCKA, Chingiz ALIYEV**




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15:20 ÷ 16:00		<b>INVITED PRESENTATION: Bo CHEN</b> The concentrations of environmental radon in China
16:00 ÷ 16:20	<b>A37</b>	<b>Federica LEONARDI</b> Critical aspects of the radon remediation in schools in south Italy
16:20 ÷ 16:40	<b>A38</b>	<b>Lidia FIJAŁKOWSKA-LICHWA</b> Extremely high radon activity concentration in two adits of abandoned uranium mine 'Podgórze' in Kowary
16:40 ÷ 17:00	<b>A39</b>	<b>Georgy MALINOVSKY</b> Reconstruction of national distribution of indoor radon concentration in Russia




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**THURSDAY, May 28, 2015**

**SESSION 6 Chairpersons: Beata KOZŁOWSKA, Iliia YARMOSHENKO**

09:00 ÷ 09:40		<b>INVITED PRESENTATION: Małgorzata WYSOCKA</b> Radon problems in mining and post-mining areas in Upper Silesia region, Poland
09:40 ÷ 10:00	<b>A56</b>	<b>Vladimir UDOVIČIĆ</b> The use of multivariate analysis and modeling of the radon variation in laboratory and real environment
10:00 ÷ 10:20	<b>A57</b>	<b>Wolfgang RINGER</b> The Austrian radon risk communication concept
10:20 ÷ 10:40	<b>A58</b>	<b>Eva PRAVDOVA</b> Radon program of the Czech Republic
10:40 ÷ 11:00	<b>A45</b>	<b>Matej NEZNAL</b> International Intercomparison measurement of soil gas radon concentration, Serbia, Niska Banja, 2014
11:00 ÷ 11:20		<b>COFFEE BREAK</b>
11:20 ÷ 11:40	<b>A46</b>	<b>Thomas STREIL</b> THORON-SCOUT: The first diffusion-based active radon and thoron monitor for long-term measurements In buildings
11:40 ÷ 12:00	<b>A47</b>	<b>Bernd HOFFMANN</b> Thoron in modern clay constructions – a case study
12:00 ÷ 12:20	<b>A48</b>	<b>Aleksey VASILYEV</b> Variance of residential indoor radon concentrations: review and modeling study
12:20 ÷ 12:40	<b>A49</b>	<b>Gennaro VENOSO, Francesco BOCHICCHIO</b> In-field evaluation of the ageing and fading effects in nuclear track detectors used for radon measurements
12:40 ÷ 13:00	<b>A35</b>	<b>Azeddine MORTASSIM</b> Measurement of <sup>238</sup> U and <sup>232</sup> Th in petrol, gas-oil and lubricant samples and radon and thoron in petrol and gas-oil exhaust fumes by using nuclear track detectors. Radiation doses to mechanic workers
13:00 ÷ 14:00		<b>LUNCH</b>

**SESSION 7 Chairpersons: Constantin COSMA, Vanja RADOLIČ**

14:00 ÷ 14:20	<b>A55</b>	<b>Viktor GOLIÁŠ</b> A new house built on the uranium vein outcrop? No problem in The Czech Republic !
14:20 ÷ 14:40	<b>A52</b>	<b>Bety BURGHELE</b> Remedial techniques for radon mitigation in a radon prone area from Romania
14:40 ÷ 15:00	<b>A53</b>	<b>Alejandro MARTIN SANCHEZ</b> Planning remedial actions in sites with high radon concentration
15:00 ÷ 15:20	<b>A54</b>	<b>Zoltán SAS</b> Radon dose problems and solutions for mitigation in case of show cave of Tapolca (Hungary) following the recommended reference level
15:20 ÷ 15:40	<b>A42</b>	<b>Wu QIFAN</b> A preliminary survey of outdoor radon concentration in China
15:40 ÷ 16:00		<b>COFFEE BREAK</b>
16:00 ÷ 17:00		<b>POSTER SESSION</b>
19:00		<b>CONFERENCE DINNER – RESTAURANT</b>

**FRIDAY, May 29, 2015**

**SESSION 8 III ERA WORKSHOP**



**Provisional programme:  
DESIGNING NATIONAL RADON ACTION PLANS**

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08:30 ÷ 08:35		<b>James McLAUGHLIN, ERA President</b> Welcome
08:35 ÷ 09:10	<b>A59</b>	<b>ERA Lecture:</b> <b>James McLAUGHLIN, Jose Luis GUTIERREZ-VILLANUEVA,</b> <b>Boris DEHANDSCHUTTER, Wolfgang RINGER</b> EU- BSS and summary of the Paris HERCA-ASN-NRPA radon workshop

**SESSION:  
QUESTIONS REGARDING THE IMPLEMENTATION OF THE RADON REQUIREMENTS OF THE EU BSS**

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09:10 ÷ 09:30	<b>A60</b>	<b>Francesco BOCHICCHIO, Katerina ROVENSKA, Jiri HULKA</b> A Review of recent National Radon Plans considering international recommendations and regulations
09:30 ÷ 09:50	<b>A61</b>	<b>Luis S. Quindos PONCELA, Carlos SAINZ,</b> <b>Jose Luis GUTIERREZ-VILLANUEVA, Ismael FUENTE</b> Harmonization project to apply the new EU-BSS
09:50 ÷ 10:10	<b>A62</b>	<b>Rebecca COATES and Martin FREEMAN</b> Radon Action Plan Mitigation Guidance - diagnostic profiling to improve radon mitigation system design
10:10 ÷ 10:25		<b>COFFEE BREAK</b>
10:25 ÷ 11:00		<b>INVITED PRESENTATION: Katerina ROVENSKA</b> IAEA action plan flow chart

**SESSION:  
IMPLEMENTATION OF ACTION PLANS**

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11:00 ÷ 11:20	<b>A63</b>	<b>Stephanie HURST</b> Current state of preparation for a National Radon Regulation in Saxony, Germany
11:20 ÷ 11:40	<b>A64</b>	<b>Krzysztof KOZAK, Jadwiga MAZUR</b> Milestones in the preparation of a National Radon Action Plan in Poland
11:40 ÷ 12:00	<b>A65</b>	<b>Vladimir UDOVICIC et al.</b> First steps towards a National Radon Action Plan in Serbia
12:00 ÷ 12:30		Discussion and announcements
12:30 ÷ 13:00		<b>Martin Neznal Memorial Lecture (B.Dehandschutter)</b>
13:00		<b>CLOSURE OF THE CONFERENCE</b>



*to be continued...*