



	Monday, September 16	
8.30 - 10.15	Registration	
10.40 - 10.50	Invitation	
	National programs and projects – morning session	Chaired by: Ms. Liang Zhou, Mr. Wolfgang Ringer
10.50 - 11.10	Protection strategy against radon in Switzerland - Invited lecture	<i>Mr. Martha Palacios; Mr. Fabio Barazza; Mr. Emanuel Christen; Mr. Daniel Storch; Mr. Sébastien Baechler</i>
11.10 - 11.30	Radon in Canada – Protecting Canadians in their Indoor Environment	<i>Mr. Scott Cryer; Ms. Pam Warkentin</i>
11.30 - 11.50	Prehistory of the Czech Radon Programme	<i>Mr. Josef Jiří Thomas</i>
11.50 - 12.10	Indicators for evaluating the effectiveness of a National Radon Action Plan: necessity and examples	<i>Mr. Francesco Bochicchio</i>
12.10 - 13.40	Lunch break	
	National programs and projects – afternoon session	Chaired by: Ms. Ivana Ženatá, Mr. Scott Cryer
13.40 - 14.00	The new Austrian indoor radon survey - objectives, methodology, challenges and results	<i>Ms. Valeria Gruber; Mr. Sebastian Baumann; Mr. Gernot Wurm; Mr. Wolfgang Ringer</i>
14.00 - 14.20	Design of a national indoor radon survey for South African Homes	<i>Mr. Rikus le Roux; Mr. Jacques Bezuidenhout; Mr. Hennie Smit; Mr. Richard Newman; Mr. Robert Lindsay</i>
14.20 - 14.40	Evaluation of representativeness of samples used for indoor radon surveys	<i>Mr. Mario Caprio; Mr. Gennaro Venoso; Ms. Sara Antignani; Mr. Marco Ampollini; Ms. Carmela Carpentieri; Mr. Christian Di Carlo; Mr. Vinicio Carelli; Mr. Carlo Cordedda; Mr. Flavio Bottacchiari; Mr. Francesco Bochicchio</i>
14.40 - 15.00	Indoor radon monitoring in kindergarten facilities: a pioneering study in Brazil	<i>Ms. Danila Carrijo da Silva Dias; Mr. Nivaldo Carlos da Silva; Mr. Marcos Vinícius Rodrigues; Mr. Wanilson Luiz Silva</i>
Poster presentations 15.00 - 15.30	Radiation protection activities during realization of the state program on protection of population of Zhovti Vody city	<i>Mr. Oleksandr Molchanov; Mr. Sergey Rudenko; Mr. Michael Soroka; Mr. Yuriy Soroka</i>
	Radon measurements done by school kids with DIY device – preliminary results	<i>Mr. Dariusz Aksamit; Ms. Katarzyna Wołoszczuk; Ms. Zuzanna Podgórska</i>
	Annual variations of indoor radon concentration in workplaces: some results and implications on protocols	<i>Mr. Gennaro Venoso; Mr. Marco Ampollini; Ms. Sara Antignani; Mr. Mario Caprio; Ms. Carmela Carpentieri; Mr. Christian Di Carlo; Mr. Francesco Bochicchio</i>
	Radon in the workplace - regulatory framework in the Czech Republic	<i>Ms. Hana Procházková</i>
	Mapping and monitoring of Indoor Radon Studies within Ghana Atomic Energy Commission and Residential Communities	<i>Mr. Francis Otoo; Mr. E. O. Darko; Mr. J. K. Amoako; Mr. Massimo Garavaglia; Mr. O. K. Adukpo</i>
	Teaching radon and environmental radioactivity; an experience in the frame of an Erasmus+ European partnership	<i>Ms. Caroline Licour; Ms. Isabelle Gerardy; Ms. Sonja Schreurs; Ms. Sandra Soares</i>



15.30 - 16.00	Coffee break, posters	
16.00 - 16.20	Challenges in managing radon at workplaces — Status in Sweden	<i>Ms. Kirlna Skeppström</i>
16.20 - 16.40	Modelling the probability of indoor radon concentration exceeding 300 Bq/m³ – new approaches using machine learning	<i>Mr. Eric Petermann; Mr. Peter Bossew</i>
16.40 - 17.00	Comparison of indoor radon long-term measurement systems - "internal tender" for the national survey	<i>Mr. Aleš Froňka, Ms. Ivana Fojtíková, Ms. Miriam Slezáková</i>
17.10	Welcome party, Faculty terrace	
Tuesday September 17		
Methods of measurement - devices, metrological aspects – morning session		Chaired by: <i>Ms. Caroline Licour, Mr. Eric Petermann</i>
9.00 - 9.20	The performance of European calibration services concerning radon in air	<i>Mr. Thomas Beck</i>
9.20 - 9:40	Results from the 3-month comparison of Electronic Radon Integrating Detectors with passive etch track detectors	<i>Ms. Zornitza Daraktchieva; Mr. Chris Howarth; Mr. Jaroslaw Wasikiewicz; Ms. Catherine Miller; Ms. Heloisa Fonseca</i>
9.40 - 10.00	Spatial variability of indoor radon concentration in schools: implications on radon measurement protocols	<i>Mr. Gennaro Venoso; Mr. Zoran Curguz; Ms. Zora Zunic; Mr. Dragoljub Mirjanic; Mr. Marco Ampollini; Ms. Carmela Carpentieri; Mr. Di Carlo Christian; Mr. Mario Caprio; Mr. Dragan Alavantic; Mr. Pedrag Kolarz; Ms. Zdenka Stojanovska; Ms. Sara Antignani; Mr. Francesco Bochicchio</i>
Poster presentations 10.00 - 10.30	Continuous radon-in-water monitoring	<i>Ms. Petra Vyletělová</i>
	Attachment Rate for Different Aerosol Sources	<i>Mr. Mostafa Mostafa; Ms. Hyam Khalaf; Mr. Michael Zhukovsky</i>
	Indoor radon concentrations for the South African West Coast Peninsula: Vredenburg and Saldanha	<i>Mr. Rikus le Roux; Mr. Jacques Bezuidenhout; Mr. Hennie Smit</i>
	Soil radon flux measurements under activated pressure gradient	<i>Mr. Iliya Yarmoshenko; Mr. Georgy Malinovsky; Mr. Aleksey Vasilyev; Mr. Michael Zhukovsky; Mr. Igor Yurkov; Mr. Gleb Gordeev</i>
	Quality assurance on indoor radon monitoring: assessment of detection limit estimation approaches	<i>Ms. Danila C S Dias; Mr. Wanilson L Silva; Mr. Nivaldo C Silva</i>
	Comparative measurement uncertainty study of solid state nuclear track detectors	<i>Ms. Danila C S Dias; Mr. Wanilson L Silva; Mr. Nivaldo C Silva</i>
10.30 -11.00	Coffee break, posters	
11.00 - 11.20	Particle size distribution of radon progeny determined on the basis of ambient aerosols size distributions	<i>Ms. Katarzyna Wołoszczuk; Mr. Krystian Skubacz</i>



11.20 - 11.40	Analysis by scanner of tracks produced by radon alpha particles in CR39 detectors	<i>Mr. Carlo Sabbarese; Mr. Fabrizio Ambrosino; Ms. Maria Gabriella Pugliese; Mr. Vincenza Roca</i>
11.40 - 12.00	Thoron interference in radon measurements for different radon monitors: results and proposal for an estimation method	<i>Mr. Christian Di Carlo; Mr. Gennaro Venoso; Mr. Marco Ampollini; Mr. Carmela Carpentieri; Mr. Mario Caprio; Mr. Francesco Bochicchio</i>
12.00 - 12.20	Determination of the thoron emanation coefficient for natural materials by means of various detectors	<i>Ms. Karolina Danyłec; Ms. Jadwiga Mazur; Mr. Krzysztof Kozak; Mr. Dominik Grzqdziel; Mr. Hao Duong Van; Ms. Paola Tuccimei; Mr. Gianfranco Galli; Mr. Carlo Lucchetti; Ms. Michele Soligo</i>
12.20 - 14.00	Lunch break	
	Methods of measurement - devices, metrological aspects – afternoon session	Chaired by: Ms. Zornitza Daraktchieva, Mr. Thomas Beck
14.00 - 14.20	Low Radon Clean-room	<i>Mr. Jiří Hůlka; Mr. Ivan Štekl; Mr. Fadahat Mahmedov; Mr. Pavel Fojtik; Mr. Eva Cermakova; Mr. Karel Jílek</i>
14.20 - 14.40	The NRPI low level continuous radon gas monitor for measurement below 1 Bq/m³	<i>Mr. Karel Jílek; Mr. Jiri Hulka</i>
14.40 - 15.00	Validation Method for the Determination of Radium 226 in water Samples Using Plastic Track Detectors CR-39	<i>Mr. Riad Shweikani; Mr. Abulkader Bitar; Ms. Khaldia Sakhita; Mr. Rawaa Bardan</i>
Poster presentations 15.00 - 15.30	Measurement at NORM workplaces - Preliminary results	<i>Ms. Katerina Navratilova Rovenska</i>
	Radon inhalation experiments to test radon exhalation kinetics	<i>Mr. Pavel Fojtik; Mr. Jiří Hůlka; Mr. Karel Jílek; Ms. Irena Malátová; Mr. Lukáš Kotík; Mr. Petr Rulik</i>
	Development of the secondary standard ²²²Rn in the air at SMU	<i>Mr. Pavol Blahušiak; Mr. Matej Krivošík; Mr. Jarmila Slučiak; Mr. Andrej Javorník; Ms. Michaela Zálešáková</i>
	Radon progeny equilibrium shift at different aerosol concentration	<i>Mr. Mostafa Mostafa; Ms. Hyam Khalaf; Mr. Michael Zhukovsky</i>
	The influence of radon activity concentration on the value of ambient dose equivalent rate	<i>Ms. Katarzyna Wołoszczuk; Ms. Zuzanna Baranowska; Mr. Maciej Norenberg</i>
	Reproducibility of radon-in-water measurements by emanometry technique	<i>Mr. Christian Di Carlo; Mr. Gennaro Venoso; Mr. Luigi Lepore; Mr. Marco Ampollini; Mr. Carmen Carpentieri; Mr. Silvia Pozzi; Mr. Mario Caprio; Mr. Romolo Remetti; Mr. Francesco Bochicchio</i>
	Intercomparisons of passive radon detectors	<i>Ms. Zuzanna Podgórska; Ms. Katarzyna Wołoszczuk</i>
15.30 - 16.00	Coffee break, posters	
16.00 - 16.20	Experience from radiation surveys (studies) in high radon areas	<i>Mr. Aleš Froňka, Mr. Milan Matolín, Ms. Ivana Fojtíková, Mr. Jan Hradecký, Ms. Petra Vyletělová, Mr. Jan Helebrant</i>



16.20 - 16.40	Quality control in continuous radon monitoring and dose assessment variability in a tourist cave	<i>Mr. Carlos Sainz; Mr. Daniel Rabago; Mr. Santiago Celaya; Mr. Enrique Fernández; Mr. Jorge Quindós; Mr. Luis Quindós; Ms. Alicia Fernández; Mr. Ismael Fuente; Mr. Luis Santiago Quindós</i>
16.40 - 17.00	Unattached ²¹²Pb fraction in the worker's breathing zone at high thoron concentrations	<i>Mr. Michael Zhukovsky; Mr. Maksim Vasyanovich; Ms. Aleksandra Onishchenko</i>
17.00 - 17.20	Measurement of radon concentration in thermal spa - Case study	<i>Mr. Ales Fronka ; Ms. Katerina Navratilova Rovenska; Ms. Petra Vyletelova</i>
17.20 - 17.40	The equipment for testing of measuring devices at the low-level radon activity concentration	<i>Ms. Eliska Fialova; Mr. Josef Vosahlik; Mr. Petr Otahal; Ms. Monika Mazanova</i>
Wednesday, September 18		
Health effects of radon – morning session		
Chaired by: Ms. Ivana Fojtková, Mr. Francesco Bochicchio		
9.00 - 9.40	German approach to the implementation of the new radon dose conversion coefficient (ICRP 137) - Invited lecture	<i>Mr. Bernd Hoffmann</i>
9.40 - 10.00	Application of Geometric Mixture Model of Risk Assessment at Radon Exposure	<i>Mr. Michael Zhukovsky; Ms. Aleksandra Ohishchenko</i>
Poster presentations 10.00 - 10.30	Radon in mines of Kryvyi Rih iron ore basin	<i>Mr. Oleksandr Molchanov; Mr. Aleksey Podrezov; Mr. Konstantin Brechko; Mr. Michael Soroka</i>
	History of radiation protection in uranium mining in CR (CSSR)	<i>Ms. Lenka Thinová, Mr. Zdeněk Gregor, Mr. Martin Čermák, Ms. Jana Mrázková</i>
	²²²Rn level in water and its effective dose around Doi Saket region, Chiang Mai, Thailand	<i>Ms. Tarika Thumvijit; Mr. Sompong Sriburee; Ms. Supitcha Chanyotha; Ms. Chutima Kranrod; Ms. Monruedee Tapanya; Mr. Pongsiri Hongkriti</i>
	Natural Radioactivity in one Brazilian Underground Mine: Case Studying	<i>Ms. Talita Santos; Mr. Zildete Rocha; Ms. Laura Takahashi; Mr. Rosemary Pinheiro; Mr. Vandir Gouvea; Ms. Flavia Borges; Mr. João Batista Siqueira; Mr. Paulo Roberto Cruz</i>
	Survey of Indoor Radon Levels in some Universities in South Western Nigeria	<i>Mr. Oladele Ajayi; Ms. Oluwabunmi Owoola; Mr. Omodele Olubi; Mr. Chidiebere Dike</i>
	Estimation of Cancer Risk due to Indoor Radon from Some Selected Homes in South-western Nigeria	<i>Mr. Kehinde Aladeniyi; Mr. Muiyiwa Arogunjo; Mr. Alcides Pereira; Mr. Oladele Ajayi; Ms. Ibiyinka Fuwape</i>
10.30 - 11.00	Coffee break, posters	
11.00 - 11.20	The influence of the F from RnDP inhalation for the estimation of the annual E in the selected workplaces	<i>Mr. Petr Otahal</i>
11.20 - 11.40	Comparing Radon Health Effects in the High Exposure Province Manitoba and the Low Exposure Province Prince Edward Island	<i>Mr. Mo'tassem Al-arydah</i>
11.40 - 12.00	Genetic modifiers of radon-induced lung cancer risk in former uranium miners	<i>Mr. Albert Rosenberger</i>
12.00 - 13.30	Lunch break	



	Health effects of radon – afternoon session	Chaired by: Ms. Kirlna Skeppström, Mr. Jiří Hůlka
13.30 - 14.10	Conversion of radon exposure to effective dose - Invited lecture	<i>Mr. James Marsh; Mr. Dominique Laurier; Mr. Ladislav Tomasek</i>
14.10 - 14.30	Lifetime risks in cohort studies of uranium miners	<i>Mr. Ladislav Tomášek; Ms. Nora Fenske; Mr. Paul Demers</i>
14.30 - 15.10	The UNSCEAR Report on Lung Cancer from Exposure to Radon - Invited lecture	<i>Mr. Ferid Shannoun</i>
15.10 - 15.50	Coffee break, discussion	
15.50 - 16.10	Occupational exposure assessment against radon risk in some thermal stations in eastern Algeria	<i>Mr. Mounir Ait-Ziane; Ms. Zohra Lounis-Mokrani</i>
16.10 - 16.30	Radon measurements in groundwater geothermal water of the Western Anatolia	<i>Ms. Feride Kulali</i>
	Methods of measurement - devices, metrological aspects	
16.30 - 16.50	Validation and quality assessment of a solid state nuclear track detector method of indoor radon monitoring for long exposures	<i>Ms. Danila Carrijo da Silva Dias, danilacdias@gmail.com; Mr. Nivaldo Carlos da Silva, ncsilva@cnen.gov.br; Mr. Wanilson Luiz Silva, wanilson@ige.unicamp.br; Mr. Marcos Vinícius Rodrigues, marcosvrod@gmail.com</i>
16.50 - 17.10	Evaluation of radon indoor concentration levels in three Brazilian municipalities	<i>Ms. Ubirani Barros Otero; Ms. Tarcísio Neve Da Cunha; Mr. Nivaldo Carlos Da Silva; Mr. Berenice Navarro Antoniazzi</i>
18.15	Conference dinner	
	Thursday, September 19	
	Radon in civil engineering	Chaired by: Ms. Leena Paap (not confirmed), Mr. Martin Jiránek
9.00 - 9.20	OPTI-SDS project: contributions to the NRCS in Ireland and international collaborations investigating radon mitigation	<i>Mr. Mark Foley; Ms. Marta Fuente; Mr. Le Chi Hung; Mr. Jamie Goggins</i>
9.20 - 9.40	Applicability of ventilation systems for reducing the indoor radon concentration	<i>Mr. Martin Jiránek; Ms. Veronika Kačmaříková</i>
9.40 - 10.00	Radon mitigation actions in large public buildings: some review and a case study	<i>Ms. Carmela Carpentieri; Mr. Christian Di Carlo; Mr. Gennaro Venoso; Mr. Marco Ampollini; Mr. Stefano Bonifazi; Mr. Vittorio Dante; Mr. Erminio Petetti; Ms. Silvia Pozzi; Mr. Stefano Valentini; Ms. Barbara Caccia; Mr. Francesco Bochicchio</i>
10.00 - 10.20	Radon measurements in big buildings	<i>Mr. Alexey Vasilyev; Mr. Ilya Yarmoshenko; Ms. Aleksandra Onishchenko; Mr. Marcus Hoffmann</i>
Poster presentations	Pilot house study on active and passive soil depressurisation for radon mitigation: Rn concentration and PFE monitoring	<i>Ms. Marta Fuente; Mr. Daniel Rabago; Mr. Jamie Goggins; Mr. Ismael Fuente; Mr. Carlos Sainz; Mr. Mark Foley</i>



10.20 - 10.30	Variation of Radon Activity Concentration in Traditional Russian Wooden Houses	<i>Mr. Petr Miklyaev; Mr. Tatiana Petrova</i>
10.30 - 11.00	Coffee break, posters	
11.00 - 11.20	The influence of pinholes in waterproofing materials on the value of the radon diffusion coefficient	<i>Mr. Tomáš Dobrovolný; Mr. Martin Jiránek</i>
11.20 - 11.40	Passive soil depressurisation systems: current and future perspectives	<i>Ms. Marta Fuente; Mr. Le Chi Hung; Mr. Jamie Goggins; Mr. Mark Foley</i>
11.40 - 12.00	A Field Study of Passive Radon Stacks in Canadian Homes	<i>Ms. Liang(Grace) Zhou</i>
12.00 - 12.20	Radon series in energy efficient buildings	<i>Ms. Aleksandra Onishchenko; Mr. Ilya Yarmoshenko; Mr. Georgy Malinovsky; Mr. Alexey Vasilyev; Mr. Michael Zhukovsky</i>
12.20 - 14.00	Lunch break	
	Radon - information carrier, radonometry, radon as a tracer gas	Chaired by: <i>Ms. Kateřina Navrátilová Rovenská, Mr. Matěj Neznal</i>
14.00 - 14.20	The NRPI integral system for the measurement of an average air exchange rate in buildings	<i>Mr. Karel Jilek; Mr. Ivan Hupka; Mr. Jan Lenk</i>
14.20 - 14.40	The NRPI multi-tracer gas PFT method as a new radon diagnostic tool	<i>Mr. Michal Šesták; Mr. Karel Jilek</i>
14.40 - 15.00	Study of radon exhalation rate from rocks. Analysis of results and uncertainties using short and long duration methods	<i>Mr. Jonay González-Guerra; Mr. Jesus García-Rubiano; Mr. Héctor Alonso-Hernández; Mr. Rafael Liza-Neciosup; Mr. Miguel A. Arnedo-Ayensa; Mr. Alicia Tejera-Cruz; Mr. Pablo Martel-Escobar</i>
Poster presentations 15.00 - 15.30	Estimation of indoor radon concentrations and exhalation rates from soil in the Tamanghasset district environment, Algeria	<i>Mr. Mounir Ait-Ziane; Mr. Khaled Kafi-Djeloul; Mr. Tayyeb Badahmaoui; Ms. Zohra Lounis-Mokrani</i>
	Variations in soil radon levels and radon activity concentration in basement during winter and spring periods	<i>Mr. Sakhayaan Gavriliev; Ms. Tatyana Petrova; Mr. Petr Miklyaev</i>
	Analysis of time series of radon activity concentration in outdoor air	<i>Mr. Martin Bulko; Mr. Karol Holý; Ms. Monika Müllerová</i>
	Study of ²²²Rn continuous monitoring time series and dose assessment in six European caves	<i>Mr. Fabrizio Ambrosino; Ms. Lenka Thinová; Mr. Milos Briestenský; Mr. Carlo Sabbarese</i>
	Radon variations and distribution in the typical family house in Slovakia	<i>Ms. Monika Mullerová; Mr. Karol Holý</i>
	Radon exhalation rate measurement from granite samples	<i>Ms. Sandra Soares; Mr. Yoenls Bahu; Mr. Joaquim Kessongo; Mr. Luis Peralta</i>
15.30 - 16.00	Coffee break, posters	
16.00 - 16.20	Estimation of radon potential by means of measuring uranium concentrations in granite geology	<i>Mr. Jacques Bezuidenhout will be presented by Dr le Roux</i>



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

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Conference program
Preliminary version as of 9.9.2019

16.20 - 16.40	Highly sensitive passive radon detector with compensated temperature dependence and thoron interference	<i>Mr. Dobromir Pressyanov; Mr. Dimitar Dimitrov; Ms. Ivelina Dimitrova</i>
16.40 - 17.00	Mapping to assessment the radon risk areas in the Cap Bon Regions, Tunisia	<i>Ms. Aouatef Ben El Haj Hassen</i>
17.00 - 17.20	Determination of geogenic radon potential (GEORP) in Poços de Caldas - Brazil	<i>Mr. Marcelo Terek Santos; Mr. Nivaldo Carlos Da Silva; Mr. Fabiano Cabañas Navarro; Mr. Bruno Neofiti Papi</i>
17.30	Conference summary and closing ceremony	