30 May 2022 / Monday

9:00	Registration					
9:00-12:00	Associate Societies Forum					
13:00-14:00	Lunch					
Room	**Pátria**	**Brahms**	**Kodály**	**Mozart**	**Strauss**	**Bartók I**
14:00-15:00	Opening ceremony					
	János Petrányi Chair of the Congress					
	IRPA Leadership					
	Csilla Pesznyák Co-Chair & Tamás Pázmándi Co-Chair					
	Austrian Radiation Protection Society					
	Young Generation					
	IAEA					
	ICRP					
	ENEN					
	EFOMP					
	EURADOS					
	HAEA					
	Other					
	Plenary talks					
	Jenia Vassileva and Burcin Okyar					
15:00-15:30	**(IAEA):** Meeting the Radiation Protection Challenges – " Novel Approaches for medical and occupational exposure control"					
15:30-16:00	**Werner Rühm:** Progress on the review and revision of the ICRP System of Radiological Protection					
16:00-16:30	Coffee break					
	Highlighted presentations I.	**Combined Session NIR**				
16:30-16:45	**Oliver Hupe** (231): The novel European Metrology Network (EMN) for Radiation Protection	**Emilie van Deventer** (346): A Framework for Non-Ionizing Radiation Protection				
16:45-17:00	**Nathalie Vanhoudt** (142): Influence of earthworms on the bioavailability of radium and metals in soil	**Eric van Rongen** (349): The ICNIRP 2020-2024 work plan				
17:00-17:15	**Gonzalo Garcia-Fernandez** (281): Impact of New Delivery Methods on the Operational Radiation Protection of Compact Proton Therapy Centers (CPTC)	**Julien Modolo** (120): Communication with the public of EMF health effects: creation of a non-ionizing radiation task group at IRPA				
17:15-17:30	**Ulrike M. Kulka** (363): RadoNorm - Towards Effective Radiation Protection Based On Improved Scientific Evidence And Social Considerations - Focus on Radon and Normial Considerations - Focus on Radon and Norm	**Nigel A. Cridland** (287): Limits of scientific insight when updating ICNIRP guidelines				
17:30-17:45	**Filip Vanhavere** (303): Personal On-line Dosimetry using Computational Methods: the PODIUM project	Plenary Discussion				
17:45-18:00	**Joanne Stewart** (240): Working together on E&T in Radiation Protection	Plenary Discussion				
18:00-20:00	Welcome reception					

31 May 2022 / Tuesday

Room	Bartók II	Liszt	Lehár	Brahms	Kodály	Mozart	Strauss	Bartók I
	Refresher course I.	**Refresher course II.**	**Refresher course III.**	**Refresher course IV.**				
08:00-08:50	**Enora Clero**: Radiation detriment calculation methodology	**Eduard Gershkevitsh:** Learning from incidents in radiotherapy: retrospective and prospective risk analysis	**Péter Zagyvai**: New challenges in radiation protection	**Tom Clarijs:** How to apply the systematic approach to radiation protection training?				
	Industry&NPP	**Medical applications I**	**Radioactivity monitoring and emergency monitoring I**	**Measurement and standardisation**				
09:00-09:15	**Young Scientist Competition** **YSC1 Kathryn L. Ambrose (135):** Conservatism Versus Sustainability	**Clémence Baudin** (307): Dysfunction of the salivary and lacrimal glands after radioiodine treatment: preliminary results of a self-controlled study in France	**Bharath Bharath** (351): Carbon-14 specific activity in atmospheric air in the vicinity of a PHWR nuclear power plant in India	**Petr Kuča** (148): Citizen Monitoring of ambient doserate: the SAFECAST project				
09:15-09:30	**YSC2 Georgian V. Tobosaru (151):** Implementation of the novel source term monitoring factors at CANDU plant for outage radiation field reduction	**Gonzalo Garcia-Fernandez** (222): Study of Activation of Air, Water And Soil in Compact Proton Therapy Centers (CPTC)	**Benjamin Zorko** (194): Modeling and measurement of airborne tritium	**André Gomes Lamas Otero** (357): A Deep Learning Model for Gamma Spectroscopy Analysis				
09:30-09:45	**Helena Janžekovič** (244): European nuclear arena after the Fukushima accident	**Leticia Irazola** (208): Nuclei activation in protontherapy tretaments	**Héloïse Gervot** (121): Adaptation of an analytical method for radium 226 in water to urine matrix	**Federico A. Geser** (119): Energy calibration of pulse-height spectra in plastic scintillators for clearance monitors using Mont Carlo simulations	IRPA Workshop	MELODI Workshop		
09:45-10:00	**Máté Solymosi** (236): Monitoring System of the Fuel-Casette-Free State of the Control Rod Sleeves at the Paks Npp	**Domonkos Szegedi** (336): Neutron dose around high energy linacs in Hungarian radiotherapy centers	**Claudia Olaru** (132): Monte Carlo simulations of the radioluminescence photons induced by alpha particles in air	**Angelo Infantino** (273): Radiation Protection challenges in the upgrade, autopsy and disposal of the LHC beam dump				
10:00-10:15	**Allan Wilson** (300): Updating a Radiation Protection Programme for a Change in Business Use and Fingeprint	**Catarina Souto** (278): Risk management in srs treatments	**David Breitenmoser** (143): Non-Proportional Scintillation Response Model for Airborne Gamma-Ray Spectrometry Applications	**Raquel Idoeta** (271): Selection tool of in situ measurement techniques for radiological characterization in D&D processes				
10:15-10:30	**Omar Al-Somali** (283): Radiation Protection for Well Logging operations in Saudi Arabia	**Mikhail Osipov** (158): Ozyorsk Computed Tomography Cohort Study – a Roadmap for Evaluation of the Potential Cancer Effects of Diagnostic Exposure in a Population Living near the Nuclear Enterprise		**Young Scientist Competition** **YSC3 Dávid Hajdú (105):** Reproduction of Shielding Concrete Activation Measurements by Simulations				
10:30-11:15	**Coffee break & Posters**				**Coffee break**			
	Personal dosimetry I	**Medical applications II**	**Radioactivity monitoring and emergency monitoring II**	**Hot Topics Optical Radiation**				
11:15-11:30	**David Endesfelder** (227): RENEB inter-laboratory comparison (2021): Biological dosimetry based on dicentric chromosomes	**Josep M. Martí-Climent** (220): Optimization of patient dose in brain [18F]-DOPA PET/CT	**Young Scientist Competition** **YSC4 Reinhard Wagner (167):** Differences in the ssessment of the number of victims of the Chernobyl Nuclear Disaster	**Volkher Onuseit** (358): Laser safety for high power and high intensity emerging laser applications. *This lecture is 20+5 minutes long.*				
11:30-11:45	**Evgenia Tolstykh** (147): Personal dose estimation based on cytogenetic FISH data after internal exposure, model approach	**Szilvia Gazdag-Hegyesi** (347): The Dose Index of Kilovoltage Cone Beam Computed Therapy for Various Imaging Protocols	**Mauro Magnoni** (241): Optimisation of gamma spectrometry measurements in atmosphere during nuclear emergencies					
11:45-12:00	**Bernard Landry** (290): CADORmed A Tool for Internal Dose Assessment	**Adam Galdi** (353): kV-CBCT dose length product and effective dose estimation on Halcyon linear accelerator	**Alexandru O. Pavelescu** (261): Comparative Re-Analysis Evaluation of The Fukushima Accident Atmospheric Radioactive Emissions	**Rudolf Weber** (360): Generation of soft X-rays during laser materials processing with ultrashort laser pulses. *This lecture is 20+5 minutes long.*	IRPA Workshop	MELODI Workshop		
12:00-12:15	**Deepesh Poudel** (276): Modified Human Respiratory Tract Model to Describe the Retention of Plutonium in Scar Tissues	**Siarhei A. Kharuzhyk** (175): PET/CT radiation doses in patients with lymphoma	**Norbert Kavasi** (342): Comparison of Radiometric and Mass Spectrometric 90Sr Analysis in the Context of the Fukushima Nuclear Accident					
12:15-12:30	**Young Scientist Competition** **YSC5 Victor Merza (139):** Is the ISO slab phantom appropriate for calibrations of the new ICRU 95 operational quantity Personal Dose?	**Maria Gracia-Ochoa** (228): Design and development of a national patient dose registry	**Fabien Michel Panza** (319): Drone Mapping Radioactivity in Emergency Situation	**Ewan Eadie** (176): The efficacy and safety of disinfection with 222 nm ultraviolet-C. *This lecture is 20+5 minutes long.*				
12:30-12:45	**YSC6 Martin Sefl (81):** Estimation of Plutonium Concentration in Skeleton from Occupationally Exposed Individuals	**Bela Kari** (136): Unique In-Vivo Non-Invasive Multimodality Imaging Based Translational Research Laboratory Established at Medical Imaging Center of Semmelweis University	**János Petrányi** (286): Assessing the Radiation Contamination of Large Areas Using Advanced Technologies	**Sven Connemann** (106): Occupational Exposure to Optical Radiation. *This lecture is 10+5 minutes long.*				
12:45-13.00				**Aspasia Petri** (196): Public exposure to artificial optical radiation in the aesthetics and the entertainment sector in Greece. Risk management actions. *This lecture is 10+5 minutes long.*				
12:45-14:15	**Lunch & Posters**				**Lunch**			
	Personal dosimetry II	**Medical applications III**	**Regulation I**	**IEEE and ICNIRP and Hot Topics EMF, I**				
14:15-14:30	**Deepesh Poudel** (276): Modified Human Respiratory Tract Model to Describe the Retention of Plutonium in Scar Tissues	**Young Scientist Competition** **YSC7 Claudia R. Codosero Navarro (141):** Three-dimensional dose calculation in CT/SPECT treatments with internal emitter LU-177 using Monte Carlo techniques	**Paul Ashley Butler** (204): Delicensing of nuclear licensed sites from the regulatory perspective	**Eric van Rongen** (348): The ICNIRP 2020 RF Guidelines - what is new?				
14:30-14:45	**Maia Avtandilashvili** (107): Biokinetics of highly enriched uranium in a female nuclear worker	**YSC8 Whitney N. Coulor (163):** Developing a radiation safety program in countries without legislation in radiation safety – a report on Caribbean countries	**Sandro Sandri** (116): The licensing application for large radiologic installations in Italy after last EU Directive implementation					
14:45-15:00	**Pavel A. Sharagin** (63): Approach to dosimetric modeling of fetus exposed to Sr isotopes	**Lukas Jägerhofer** ( ): MEDAUSTRON – Radiation Protection for an Ion Therapy Center in Austria	**Tünde Katona** (168): The Hungarian Radiation Protection Regulatory System	**Akimasa Hirata** (344): Comparison of Limits in ICNIRP Guidelines and IEEE C95.1 Standard				
15:00-15:15	**Young Scientist Competition** **YSC9 Guillaume Garnier (102):** Experimental reconstruction of an accidental external exposure: how the dosimetric methods complement each other?	**Highlighted posters** **Marina V. Filimonova** (354): Medical application of radioprotectors: a promising concept for the prevention of radiation pathologies **Nina Tuncel** (268): Dosimetric Comparison of Tomotherapy and Three Dimensional Conformal Radiotherapy Plannings for Graves Oftalmopathy	**Eszter Retfalvi** (317): Regulatory radiational protectional oversight program for hungarian research reactors		IRPA Workshop	MELODI Workshop		
15:15-15:30	**Lily Bossin** (150): Transitioning to radiophotoluminescence (RPL) dosimetry for environmental and area monitoring: the Paul Scherrer Institute's experience	**Abdelmoneim Sulieman** (339): Assessment of the effective radiation dose and cancer induction probability in urographic imaging procedures **Aída López Romero** (243): Uncertainties in the fractionation and optimization of radioembolization with SIR-Spheres	**Amjad Khursheed** (237): Impact of rainfall on radiological consequences from design basis accidents at UK nuclear sites	**Jolanta Karpowicz** (280): Numerical modeling of occupational hazards related to electromagnetic emission from surgical diathermy				
15:30-15:45	**Highlighted posters** **Alberto Stabilini** (129): Performance assessment and improvement of fluorescent nuclear track detectors as neutron dosimeters **Víctor Garcia Balcaza** (122): PyMCGPU-IR Monte Carlo code for occupational dosimetry in interventional radiology	**Juan D. Palma Copete** (189): Establishment of radiation qualities for use in medical diagnostic according to the IEC 61267:2005 standard in the secondary standard dosimetry laboratory of the Centro Nacional de Dosimetri **Clement Devic** (333): Evaluation of the IVIscan detector for regulatory dosimetric quality control including wide radiation beam for computed tomography	**Helena Janžekovič** (221): Twenty years of inspection interventions in Slovenia	**Ante Lojić Kapetanović** (210): Machine learning-assisted antenna modelling for realistic assessment of human exposure reference levels at frequencies above 6 GHz				
15:45-16:15	**Coffee break & Posters**				**Coffee break**			
	Personal dosimetry III (medical)		**Highlighted posters**	**Hot Topics EMF, II**				
16:15-16:30	**Meng-En Lian** (157): Occupational radiation dose and radiation protection to the eye lens of interventional professionals from departments of interventional radiology and interventional cardiology		**Silke C. Wouters** (103): Dose rate calculations for a new radioactive waste interim storage facility at PSI **Jos van den Eijnde** (156): Avoiding multiple conservative assumptions: a case on a laboratory rule	**Fabriziomaria Gobba** (206): Occupational Exposure to EMF and Health Surveillance of exposed workers				
16:30-16:45	**Guang Yee Wong** (180): Medical Radiation Exposure during Cone-Beam Computed Tomography (CBCT) Guided Pulmonary Intervention		**Zhanat Baigazinov** (191): Assessment of possibility of farm animal breeding on the STS **Viktoria Grill** (131): Determination of Cs-137 and Sr-90 in wood and wood ash purchased in Austria	**Anna Šušnjara** (192): Assessment of Absorbed Power Density in Multilayer Planar Model of Human Tissue				
16:45-17:00	**Richard Milecz-Mityko** (364): Preliminary study on individual radiation dose received by medical staff for dose constraint determination		**Mirjana M. Đurašević** (315): Importance of the exposed workers education in the system of radiation protection: the experience of the Center for Permanent Education, "Vinca" Institute of nuclear sciences Serbia **Andrzej Wojcik** (301): Education and training program of the project RadoNorm: towards effective radiation protection based on improved scientific evidence and social considerations – focus on radon and NORM	**Julien Modolo** (39): Potential contribution of the transcranial stimulation literature to EMF exposure standards				
17:00-17:15	**Young Scientist Competition** **YSC10 Victor Garcia Balcaza** (122): PyMCGPU-IR Monte Carlo code for occupational dosimetry in interventional radiology		**Victor Merza** (140): Measurements of backscatter factors of phantomS for the correct evaluation of uncertainty contributions in occupational dosimetry **Gal Amit** (162): Automatic Classification of TLD Glow Curve Anomalies Using Machine Learning Tools	**Jens Haueisen** (172): Transcranial Electric and Magnetic Stimulation				
17:15-17:30			**Klara Poiškruh** (234): Gross alpha beta method and dose estimation **Irina Avram** (253): Radiological protection assessment using Monte Carlo simulation code	**Tobias B. Gilk** (153): Under Our Very Noses: How MRI Safety Got Away From Us				
17:30-18:00	**Posters**			**Peter Jeschke (165):** EMF-Risk Assessment - Supporting German SME with Technical Rules **Miklós Kuczmann:** Evaluation of physiological effects of the electromagnetic field caused by fully electric and hybrid drives in the passenger compartment				
18:00-19:00	**YG Career Guidance - Workshop**							

1 June 2022 / Wednesday

Room		Lehár		Kodály	Mozart	Strauss	Bartók I
All day	Excursions	IAEA Workshop		IRPA Workshop	MELODI Workshop		
Evening	**Gala Dinner Cruise**						

The IRPA Workshop
Date: June 1, 2022, 9:00-16:30
Room: Lehár

Title: Satellite IAEA-IRPA workshop on Radiation safety culture training for healthcare professionals
Purpose: The purpose of the event is to contribute to the knowledge sharing on broader aspects of improving radiation protection and safety culture in healthcare.
The focus of discussion will be around the effective training approaches for enhancing the radiation safety culture traits as suggested in the IAEA Radiation Safety: Trait Talks handbook.
Audience: The workshop will be attended by participants nominated by the IAEA Member States through the Technical cooperation project for Europe on radiation protection in medical exposure.
Other congress participants who are interested in the topic can also attend the workshop. Pre-registration is needed at no additional costs.

Technical Site Visits (TSV)
The Technical Site Visits are paralell events, you will be able to attend only one of them. All the TSVs are scheduled on Wednesday, 1 June and departure from the congress venue. Participants will travel by bus to the selected TSV, and lunch box will be handeled out on the bus. The lunch box will be made by the congress catering service.

TSV1 - Extreme Light Infrastructure - Attosecond Light Pulse Source (ELI-ALPS) Szeged
Type: Education

The primary mission of the ELI-ALPS Szeged research facility is to make a wide range of ultrashort light sources accessible to the international scientific community user groups. Laser driven secondary sources emitting coherent extreme-ultraviolet (XUV) and x-ray radiation confined in attosecond pulses is a major research initiative of the infrastructure. The secondary purpose of the facility is to contribute to the necessary scientific and technological developments required for high peak intensity and high power lasers.

TSV2 - MVM Paks Nuclear Power Plant
Type: Industry

Existing:
4 reactors type: VVER V-213 (4x500 MW), a pressurized water reactor
First power: 1982-12
Capacity: 1902 MWe - its four reactors produced more than 50% of Hungary's electricity production in 2019.

New:
2 reactors type: VVER-1200/V-527
First power: 2026
Capacity: 2400 Mwe

TSV3 - Public Limited Company for Radioactive Waste Management (PURAM), Bátaapáti, HU
Type: Waste management

The site started to operate more than 40 years ago in 1977, the company has been operating since 1998. The company has become responsible for the operation of the facility only non-nuclear power plant origin so-called institutional (health care, industry, agriculture, education and research) low and intermediate level wastes which are received from the whole territory of the country. Every working cloth, protecting equipment etc. that were in contact with irradiated material are put into concrete vaults that are sunk in the surface. The overall capacity of the vaults is 5040 m3.

TSV4 - Department of Nuclear Medicine, Semmelweis University, Budapest
Type: Medical

The Center carries out a full range of isotope diagnostic and isotope therapy activities. She is involved in outpatient and inpatient care. It is one of the widest nuclear medicine profile jobs in the country. A center designated to perform several special diagnostic procedures as part of progressive care. It is involved in the introduction of several new diagnostic procedures in Hungary. The Center also has SPECT-CT equipment.

TSV5 - Budapest Research Reactor (Centre for Energy Research)
Type: Research

The Budapest Research Reactor (BRR) is a VVR-type (water-cooled, water-moderated) Soviet design reactor. It went critical in 1959. The initial thermal power was 2 MW. The first upgrade took place in 1967 when the power was increased to 5 MW using a new type of fuel and a beryllium reflector. A full-scale reactor reconstruction and upgrade project started in 1986, and finished in December 1992. The upgraded 10 MW reactor received the operation license in November 1993. The reactor switched to low enrichment fuel (LEU) in 2013 and, with fewer and fewer research reactors in Europe, its role in neutron physics and neutron analysis researches is expected to increase in the coming years.

TSV6 - Training Reactor Budapest University of Technology and Economics
Type: Education

The Training Reactor of the Budapest University of Technology and Economics is a light water moderated and cooled reactor of 100 kW nominal thermal power. The core consists of EK-10 type fuel assemblies, containing 10% enriched UO 2 in metal magnesium matrix. The fuel region is surrounded by graphite reflector assemblies. The maximum thermal neutron flux in the reactor core is 2.7·10 12 n/cm 2s.

TSV7 - Nuclear measuring instrument production Gamma Technical Co., Budapest, HU
Type: Industry

Get to know the representatives of the Hungarian radiation protection industry

Gamma Technical Co.
The Institute of Isotopes Co.
RADCHEM - Solution for Isotope Applications
IsotopTech Zrt.

TSV8 - MedAustron, Carbon Beam Radiotherapy Centre, Wiener Neustadt, AU
Type: Medical

The particle accelerator generates the particle beam used for medical treatment and research. At MedAustron either protons or carbon ions are used, generated by three ion sources. The charged particles are pre-accelerated in the so-called “Linac“ (“Linear Accelerator”) on a straight path by electrical alternating fields and are then injected into the synchrotron. In the synchrotron, a circular accelerator with a circumference of 80 meters, the particles are further accelerated until they reach their final velocity of approximately two thirds of the speed of light, or 200.000 km/s. Finally, the ion beam is led into the irradiation rooms on a so-called extraction line. The particles are held in place within a vacuum tube by strong magnetic fields, generated by 300 magnets in total. The synchrotron has been developed in close cooperation with CERN.

TSV9 - Seibersdorf laboratories, Seibersdorf, AU
Type: Industry

Seibersdorf Laboratories combines the knowledge gained from 30 years of research and development with unparalleled service. Their experts are renowned worldwide and represent Austria in various international committees.

2 June 2022 / Thursday

Room	Bartók	Liszt	Lehár	Brahms	Kodály	Mozart	Strauss	Bartók I
	Refresher course V.	**Refresher course VI.**	**Refresher course VII.**	**Refresher course VIII.**				
08:00-08:50	**Noémi Nagy**: Radiation in analysis and structural studies	**Katalin Lumniczky:** Challenges in radiation protection research and their radiobiological bases	**Jenia Vasilleva** (IAEA): Patient dose assessment in diagnostic radiology: from modality specific to patient specific metrics.	**Dragan Poljak**: Human Exposure to Electromagnetic Fields				
	NORM & Radon I	**Other radiation protection**	**Education and training I**	**Radioecology**				
09:00-09:15	**Jelena Mrdakovic Popic** (305): Developing methodology for information collection for a systematic overview of NORM exposure sites	**Giuseppe Taino** (127): The fitness to work at risk of ionizing radiation: criteria and assessment process in employees with an oncological disease	**Clemens Walther** (335): Augmented cooperation in education and training in nuclear and radiochemistry	**Carina Elin Sophie Ohlin** (232): Deposit and Root Uptake of 238U,232Th, 226Ra and 228Ra in Berries and Their Foliage from Areas with Elevated Levels of Naturally Occuring Radioactivity				
09:15-09:30	**Wolfgang Ringer** (321): Radon mapping of a different kind: Mapping activities and collaborations on radon of international organizations and associations	**Hildegarde Vandenhove** (297): The importance of MEENAS in the European radiation protection research and innovation scene	**Salome Kiparoidze** (269): Effectiveness of online trainings on radiation protection in the context of the covid-19 pandemic	**Runhild Gjelsvik** (285): Long-term studies of radiocaesium turnover in a mountain lake ecosystem in Norway				
09:30-09:45	**Peter Bossew** (164): Radon abatement policy: from data to decisions	**Linda K. Janssen-Pinkse** (270): Supporting the radiation protection professional in promoting radiation protection culture in the Netherlands	**Jan-Willem Vahlbruch** (226): Online Radiation Protection Courses - Lessons learned during the Corona crises	**Franz Josef Maringer** (309): A review on 60 years radioecological research of the Danube River				
09:45-10:00	**Sylvain Andresz** (145): The application of the ALARA principle for radon at work: feedbacks from the European ALARA network	**Marianna Koutrouli** (257): Comparison of the secondary cancer risk induced by prostate external beam radiotherapy for partially in-beam organs between two different regimes in different patient age groups	**Sarah Hunak** (134): A Remote Radiation Protection Training Initiative in the UK	**Sophie Beauquier** (109): Interest of ecosystem services concept for environmental radiation protection	RHSP meeting	MELODI Workshop		Startup Competition
10:00-10:15	**Ruxandra Cristina Săpoi** (306): Raising awareness through continuous radon measurements in indoor workplaces	**Julie J. Burtt** (355): Outputs of a horizon style exercise to advance the use of the adverse outcome pathway in radiation protection	**Young Scientist Competition** **YSC11 Charlotte Schütte** (114): A teaching concept for school experiments on radioactivity using augmented reality methods	**Benoit Charrasse&** (82): Does the use of reference organism in impact assessments provide an adequate protection of site-specific species in routine release? Clarification and reassurance				
10:15-10:30	**Bård Olsen** (284): The effect of new building regulations for indoor radon in radon-prone municipalities	**Highlighted posters** **Seung Hun Shin** (323): Respiratory protection strategies for the public in emergency response **Hassan Salah Ibrahim** (338): Assessment of pediatric radiation dose and cancer risk from pediatric enhanced ct abdomen examination	**Tom Clarijs** (217): Radiation protection education and training: initiatives from the SCK CEN Academy	**Eduardo Gallego** (282): Methodologies to assess radiological impact of a nuclear fusion test facility				
10:30-11:15	**Coffee break & Posters**				**Coffee break**			
	NORM & Radon II	**Radiobiology I**	**Education and training II**	**5G Communication Systems, I**				
11:15-11:30	**Zsolt Homoki** (201): Indoor gamma radiation and radon risk assessment in Hungarian dwellings	**Vadim Chumak** (238): Dose reconstruction for epidemiological studies among Chernobyl cleanup workers: review of accomplishments and outlook	**Carmel J. Caruana** (235): Increasing the number of students in radiation protection and medical physics - finding a formula that works	**Akimasa Hirata** (345): EMF Dosimetry and Assessment above 6 GHz				
11:30-11:45	**Annette Röttger** (214): Exploitation of results: Radon metrology for the use in climate change observation and radiation protection	**Dominique Laurier** (332): Effects of radiation exposure on offspring and next generations: current issues and potential impact for radiological protection	**Hielke-Freerk Boersma** (152): Developing (Education and Training in) Radiation Protection in Suriname and beyond – the role of the Dutch Society for Radiation Protection					
11:45-12:00	**Rocco Marchese** (186): Simple one-parameter function to retrieve the correct exposition value from cr-39 radon detectors, also valid in high saturation regime. Validation of the method with two different radon mea	**Richard Wakeford** (337): Effects of radiation exposure on offspring and next generations: effects consequent to intrauterine exposure to ionising radiation	**Claire-Louise Chapple** (118): UK Experience of Professional Registration in Radiation Protection	**Dragan Poljak** (177): Assessment Methods for Radiation of 5G systems				
12:00-12:15	**Eric Petermann** (133): On the effectiveness of radon priority areas - a critical evaluation	**Sisko I. Salomaa** (331): Effects of radiation exposure on offspring and next generations: Genetic and epigenetic effects	**Wei-Hsung Wang** (69): Roadmap to become a certified health physicist in the US			MELODI Workshop		Startup Competition
12:15-12:30	**Hallvard Haanes** (199): Outdoor measurements of thoron progeny in a 232Th-rich area with deposition-based alpha track detectors and corrections for wind bias	**Christelle Adam-Guillermin** (324): Effects of radiation exposure on offspring and next generations: heritable effects in non-human species	**Stéphane Pepin** (128): Information on cosmic radiation received by Belgian aircrew: a survey	**Wout Joseph** (183): Challenges of 5G NR exposure assessment				
12:30-12:45	**Ladislav Tomasek** (272): Additive and multiplicative risk models of lung cancer risk from radon and smoking	**Stéphane Grison** (361): Multigenerational effects of co-exposure to chronic low-dose in utero exposure to internalized Cs-137 and post-natal high-fat diet in mice: Study plan and collaboration opportunities	**Highlighted posters** **Salwa AL-salhy** (343): Strengthening the training and retraining programme to strengthen national capacity to reduce exposure to ionizing radiation in catheter laboratories in Iraq **Isabel Paiva** (327): MPSR: A unique Master's Course on "Radiation Protection and Safety" in Portugal. Lessons learnt and recommendations for the future					
12:45-14:15	**Lunch & Posters**				**Lunch**			
	NORM & Radon III	**Radiobiology II**	**Perspectives from ethics, social sciences and humanities**	**5G Communication Systems, II**				
14:15-14:30	**Thomas Makumbi** (123): Assessment of Uncertainties Affecting Dosimteric Calculations for Intake of Radon and NORM	**Dmitry Klokov** (362): Low Dose Research Projects Database: a New Tool to Facilitate Global Collaboration and Effective Funding Decisions	**Anja J. Dijkman** (359): Learning from daily work processes promotes safe working	**Mats-Olof Mattsson** (171): 5G NR and Human Health: Current knowledge and important knowledge gaps				
14:30-14:45	**Hélène Caplin** (288): Occupational exposure in industries involving NORM: special case of the inadvertant ingestion	**Vinita Chauhan** (356): The adverse outcome pathway approach in radiation protection and efforts towards global co-ordination	**Peter Bryant** (110): Communicating Radiation Risk: The Role of Public Engagement in Reaching ALARA					
14:45-15:00	**Rainer Gellermann** (137): Classification of NORM as a Basis for Dose Estimation	**Felix Mathew** (100): Examining radiation-induced mutations in human cells using single-cell DNA sequencing - An exploratory study	**Tanja Perko** (329): Measuring radiological risk perception through public opinion surveys: Critical reflecton on methods	**Szilvia Nagy:** Investigation of exposure to electromagnetic waves by using unmanned aerial vehicles				
15:00-15:15	**Rainer Gellermann** (211): Experience with NORM-waste disposal in different European Countries	**Young Scientist Competition** **YSC12 Anna Andreevna Rastorgueva** (54): Application of cellular technologies in the treatment of local radiation injuries	**Marie Claire Cantone** (112): Ethics in Radiological Protection in Medicine - ICRP TG 109	**Krzysztof Gryz** (259): Comparison of exposure to radiofrequency electromagnetic field emitted by RTV and mobile communication transmitters in urban environment		MELODI Workshop		
15:15-15:30	**Iuliia Gushchina** (57): Radiation Monitoring in the Areas of Uranium Legacy Sites and Facilities of the Central Asian Countries during the Environmental Remediation	**YSC13 Mariia Alexandrovna Ianishavskaia (60):** Association of single nucleotide polymorphisms of apoptosis and cell cycle control genes with the risk of malignant neoplasm development in chronically exposed persons	**Catrinel Turcanu** (328): Transdisciplinarity in radiation protection research and practice? Way forward and practical considerations	**Péter Pál Necz** (255): Measurement of radiofrequency (RF) exposure around a 5G base station				
15:30-15:45	**Highlighted posters** **Rainer Gellermann** (298): The European NORM Association (ENA) - Promoting Radiation Protection in the Field of NORM in Europe **Coretchi Liuba** (173): Radon Survey and exposure assessment in Republic of Moldova	**Tetsuhiro Kinugawa** (223): Analysis of radiation effects on cancer using a mathematical model		**Mattia Vaccarono** (197): A Methodology To Assess The EMF Exposure Of 5G Ssignals				
15:45-16:15	**Coffee break & Posters**				**Coffee break**			
	Radioactive waste management and geological disposal	**Radiobiology III**	**Perspectives from ethics, social sciences and humanities**	**Health Effects of Lighting**				
16:15-16:30	**Young Scientist Competition** **YSC14 Davide Bozzato (185):** Operational Radiation Protection Challenges For The LHC Experiments	**Takahiro Wada** (224): Radiation and lifespan: Revisiting the concept of radiation-induced aging	**Ethics Round Table: Ethics and Social Sciences and Humanities for Radiological Protection: an approach that concerns us all**	**John O'Hagan** (179): Health Effects of Lighting				
16:30-16:45	**YSC15 Vanda Papp (149):** Investigation of the structure of binders related to the final disposal of radioactive waste	**Masanori Tomita** (213): Significance of stem cell competition in the dose rate effects						
16:45-17:00	**Federica Russo** (256): Remediation of a concrete underground artifact containing radiferous preparations of Ra-226 and disposal of the radioactive or contaminated material until complete restoration of the area	**Sandrine Pereira** (246): Predicting toxicity after head and neck cancer radiotherapy: synergistic role of biological markers and dosimetry?		**Mariëlle P.J. Aarts** (181): Importance of indoor lighting for well-being, physical and mental health				
17:00-17:15	**Eszter M. Kovács** (178): Preparation of a sorbent suitable for sorption of anionic and cationic radioactive contaminants	**Géraldine Landon** (115): Liposomal formulations of new decorporation molecules for the treatment of internal strontium/cobalt contaminations				MELODI Workshop		
17:15-17:30	**Isabel Paiva** (330): Introduction to the application of COMSOL Multiphysics to radionuclide transport calculations of migrating species from a repository for low-level radioactive waste	**Stanislav S. Silkin** (138): Cancer risk in the cohort of exposed poputation of the East Urals Radioactive Trace **Elena Shishkina** (187): Extensive measurements of Sr-90 body-burden as a basis of retrospective internal dosimetry for population of the Urals region		**Herbert Plischke** (190): Health effects of lighting, 3				
17:30-17:45	**Malgorzata U. Sliz** (130): Newly Built Clearance Facility at the Paul Scherrer Institute, Switzerland	**Nadia Boroumand** (304): Cancer-related changes in cells exposed to alpha radiation in combination with nicotine **Teena Haritwal** (169): Radiotherapy induced alteration in cytokine levels are mitigated by TSA in C57Bl/6 mice						
17:45-18:00	**Jean-Michel Horodynski** (326): SimB-AD project: methodology to assess beta-only radionuclides activation into cyclotron materials			Plenary Discussion				
18:00-18:30	**Posters**							

3 June 2022 / Friday

Room	Pátria	Brahms	Kodaly	Mozart	Strauss	Bartók I
	Refresher course IX.	**PEROSH workshop "Electronic Article Surveillance"**				
08:00-08:50	**Carmel J. Caruana:** Strategic planning for attracting young people to radiation protection and medical physics university programmes.	**8.15-8.45:** Technical Issues				
	Plenary	**8.45-9.15**: Challenges in Application				
09:00-09:30	IRPA					
	Highlighted presentations II	**9.15-9.30:** Reasonably foreseeable use of EAS and product safety				
09:30-09:45	**Dóra Buzetzky** (182): Application of cation-exchanged bentonites in nuclear waste treatment					
09:45-10:00	**Harald Breitkreutz** (202): Identification and quantification of anomalies in gamma dose rates of environmental radiation monitors using artificial intelligence	**9.30-9.45:** Continuous effort to support safe and healthy EAS-workplaces in Europe				
10:00-10:15	**Stéphane Pepin** (144): The issue of Cs-137 in firewood and biomass combustion: a review	Discussion				
10:15-10:30	**Tamara Azizova** (161): Effects of IR on diseases of the circulatory system and their consideration in the System of Radiological Protection	Discussion				
10:30-11:00	**Coffee break & Posters**					
	Highlighted presentations III					
11:00-11:15	Highlighted NIR presentation					
11:15-11:30	**Ulf Stolzenberg** (239): Radiation protection at ultrashort-pulsed lasers in materials processing					
11:30-11:45	**Thierry Schneider** (205): Reasonableness and tolerability in the system of radiological protection: ICRP on-going reflection					
11:45-12:00	**Angelo Infantino** (274): Radiation Protection challenges in the Large Hadron Collider upgrade					
12:00-12:15	**Competitions awards ceremony**					
12:15-12:45	**Closing ceremony**			EURADOS meeting		
12:45-14:15	**Lunch**					