

ERPW 2026

Conference Programme



MONDAY, 5 OCTOBER

13:00 – 18:00	RENEB	<i>Conference room 3+4 lower ground floor</i>
14:00 – 18:00	GA MELODI	<i>Conference room 1+2 lower ground floor</i>
15:00 – 17:00	Early Career Researcher	<i>Sky Lobby 6th floor</i>
16:30 – 18:30	Pianoforte ExeB	<i>Sky Lounge West 6th floor</i>

FRIDAY, 9 OCTOBER

09:00 – 13:00	GA ALLIANCE	<i>Sky Lobby 6th floor</i>
09:00 – 11:00	GIROSCOPE + CATAPULT	<i>Conference room 1+2 lower ground floor</i>
09:00 – 10:30	GA EURAMED	<i>Sky Lounge West 6th floor</i>
09:30 – 12:00	RRADEW	<i>Sky Lounge Ost 6th floor</i>
13:00 – 14:30	LCA4NORM + Multiplex	<i>Conference room 1+2 lower ground floor</i>
13:00 – 15:00	MEENAS	<i>Conference room 3+4 lower ground floor</i>

09:00 – 09:30		Opening Plenary — Welcome & Conference Framing	
FORUM		🗣️ Inge Paulini (President, BfS), Annette Röttger (Member of the Executive Committee, PTB)	
09:30 – 10:15		Keynote — Key Topic 1: Security and Preparedness	
FORUM		🗣️ Frank Sauer	
10:15 – 10:45		Coffee Break ☕	
FOYER			
10:45 – 12:00		PARALLEL SESSIONS	
FORUM		PLENUM	SKY LOBBY
S1.1		S2.1	S3.1
Radiation Safety in Crisis Situations		AI for Monitoring & Dose Management	One Health & Environment
Chair Florian Gering Co-Chair Marie Simon-Cornu		Chair Irène Korsakissok Co-Chair Dorottya Jakab, Antonio Sarno	Chair Ivica Prlić Co-Chair Franck dal-Molin
10:45–10:55 REGULAR TALK		10:45–10:58 TALK WITH Q&A	10:45–10:58 TALK WITH Q&A
S1.1 – 1 On the health significance of reference levels adopted in radiological emergency situations: towards complementary metrics? 🗣️ Quentin Couanau		S2.1 – 1 Machine-Learning-supported probabilistic indoor radon mapping for population exposure monitoring and dose management in Germany 🗣️ Eric Petermann	S3.1 – 1 Human-Mouse Comparison of Radiation-Related Cancer Mortality Using the Two-stage Clonal Expansion Model 🗣️ Tatsuhiko Imaoka
10:55–11:05 REGULAR TALK		10:58–11:11 TALK WITH Q&A	10:58–11:11 TALK WITH Q&A
S1.1 – 2 CITISTRA – a distributed citizen-based network of mobile ionizing radiation detectors: from emergency preparedness to routine environmental monitoring. Project concept and implementation in Poland 🗣️ Renata Kierepko		S2.1 – 2 Quality Assessment and Integration of Citizen Environmental Radiation Monitoring during Nuclear Emergencies: Activities of the CITHARA Project 🗣️ Sara Della Monaca	S3.1 – 2 Development of a dosimetric voxel model for a marine mammal 🗣️ Elin Wefer
11:05–11:15 REGULAR TALK		11:11–11:24 TALK WITH Q&A	11:11–11:24 TALK WITH Q&A
S1.1 – 3 From meteorology to improved thresholds in nuclear surveillance networks 🗣️ Stefan Röttger		S2.1 – 3 Machine Learning Enhanced Analysis of Silica Glass Jewellery Beads for Thermoluminescence Dosimetry Health Monitoring 🗣️ Lukasz Tomaszewski	S3.1 – 3 Refining the Adverse Outcome Pathway (AOP) for radon-induced lung cancer: integrating genetic variability and environmental co-exposures to improve risk characterization 🗣️ Klea Hondro
11:15–11:25 REGULAR TALK		11:24–11:37 TALK WITH Q&A	11:24–11:37 TALK WITH Q&A
S1.1 – 4 Developing a radiation-protection strategy considering residual doses 🗣️ Mario Gaspar Quarenta		S2.1 – 4 ACCREDITED project: advancement in computational dosimetry for complex radiation fields 🗣️ Daniela Passeri	S3.1 – 4 Internal accumulation and reproductive toxicity of chronic radium-224 exposure in Caenorhabditis elegans 🗣️ Hengyi Zhu
11:25–11:35 REGULAR TALK		11:37–12:00 Joint Discussion	11:37–11:50 TALK WITH Q&A
S1.1 – 5 Protecting forces deployed during nuclear security events: Trusted methods and new innovation 🗣️ Emily Alice Kroeger			S3.1 – 5 Low Natural Background Radiation Induces Functional and Transcriptomic Reprogramming of Human Mesenchymal Stromal/Stem Cells 🗣️ Nicola Alessio
11:35–11:40 PITCH TALK			11:50–12:03 TALK WITH Q&A
S1.1 – 6 PREDICT: How to improve simulation models for nuclear detonation events 🗣️ Wolfgang Raskob			S3.1 – 6 A decade of radioactive contamination in Fukushima: reproductive alteration in tree frogs across biological scales 🗣️ Olivier Armant
11:40–11:45 PITCH TALK			12:03–12:18 Joint Discussion
S1.1 – 7 Current Research and Technological Status of TL/OSL Retrospective Dosimetry and Radiological Characterization of Candidate Materials 🗣️ Byungmin Lee			
11:45–12:00 Joint Discussion			
12:00 – 13:00		Lunch Break 🍴	
FOYER			

13:00 – 14:00

FORUM

MEENAS

Chair: Filip Vanhavere

- **Platforms & SRIA:** Introduction to the platforms and their integration through MEENAS; focus on how the platforms jointly contributed to the SRIA topics (max. 20') — Filip Vanhavere
- **Future Challenges in Radiation Protection:** Key challenges for the coming years and perspectives on radiation protection research in 10 years, based on the SRIA/MEENAS (max. 20') — Christoph Hoeschen & Rodolphe Gilbin
- **Early Career Researchers' Response:** Science Slam responding to the presentations, with a focus on future challenges (max. 10') - Ämilie Degenhardt

14:00 – 14:45

FORUM

Welcome Address

 Carsten Schneider, Federal Minister for the Environment, Germany

14:45 – 15:15

FOYER

Coffee Break

15:15 – 16:30

FORUM

Metrology in Radiation Protection Dosimetry

Chairs: Oliver Hupe, Nicole Klasen  Talks: Annette Röttger, Hayo Zutz, Rolf Behrens, Marko Esche, Rick Tanner

Five speakers will provide a brief overview of key aspects of metrology supporting reliable measurements in radiation protection dosimetry. Topics will range from calibration and testing standards – with a particular focus on software security – to practical aspects of legal dosimetry.

16:30 – 18:00

FORUM

FLASH TALKS & POSTER SESSION

16:30-17:00

 Selected participants present their posters to the plenary in brief 3-minute flash talks.

- **TFT 1** – Digital Simulation Tool for Assessing the Resilience of Radiological Emergency Preparedness, Response and Recovery Systems During Wartime — Thomas Makumbi
- **TFT 2** – Radiological Incident Scenarios in the TITAN 3 Training Programme — Yannick Verbele
- **TFT 3** – Development of Advice for Communication on Protective Actions in Nuclear Detonation Scenarios — Yevgeniya Tomkiv
- **TFT 4** – Dietary Intake of Natural Radionuclides among Children and Adolescents in Germany — Michaela Achatz
- **TFT 5** – Bridging Radiation Protection and Life Cycle Assessment: Integrating NORM into Holistic Sustainability Assessment — Boguslaw Michalik
- **TFT 6** – Non-cancer Effects of Ionizing Radiation and the Detriment – Are We Still on the Right Way? Reconsidering Hereditary Effects and Cardiovascular Diseases in Radiation Protection — Peter Scholz-Kreisel
- **TFT 7** – Occupational Radon Exposure in Romania: A Comprehensive Study Using Passive and Active Sensors — Denisa Valentina Negreanu
- **TFT 8** – Radon at Workplaces: What We Expected and What Ten Years of Implementation Taught Us — Kateřina Navrátilová Rovenská
- **TFT 9** – Dose reconstruction for the international pooled analysis of uranium processing workers (iPAUW) study: harmonization and results — Estelle Davesne
- **TFT 10** – Bone Marrow Extracellular Vesicles of Distinct Cellular Origins May Differentially Mediate Radiation Damage — Martina Forgács

17:00-18:00 **Walk through Poster Exhibition** 

AUDITORIUM

- **PTu-1** Reducing uncertainty in primary Radon-222 standardisation using defined solid-angle alpha spectrometry Behnam Khanbabaee
- **PTu-2** Assessment of chromosome and chromatid aberrations after cryopreservation of whole blood samples from prostate cancer patients Clara Gámez-Moreno
- **PTu-3** Artificial intelligence in biological dosimetry: Validation of a deep-neuronal network workflow for fully automated analysis of dicentric chromosomes Martin Bucher
- **PTu-4** Modelling radiation risk transfer between populations and its relevance for lifetime risk Markus Eidemüller
- **PTu-5** Biological dosimetry of chronic occupational radiation exposure using the dicentric assay and a Bayesian framework Volodymyr Vinnikov

- **PTu-6** Airborne Gamma Spectrometry in Germany for Rapid Radiological Mapping and Emergency Response Preparedness *Tönjes Koschine*
- **PTu-7** Capacity and capability of the RENEB network for large scale radiological and nuclear emergencies *Martin Bucher*
- **PTu-8** Radon metrology – at the cradle of Radon protection *Sebastian Feige*
- **PTu-9** Holistic view of naturally occurring radionuclides in natural gas industry – an old story? *Jörg Dilling*
- **PTu-10** Tracking the Fate of Po-210 in a Sandstone Aquifer in Germany *Peggy Hofmann*
- **PTu-11** In situ measurements of ordinary salt samples using a portable OSL reader for individualised radiation dosimetry *Maria Karampiperi*
- **PTu-12** Evaluating Lightweight Multilingual Embedding Models for Dose-Management and Regulatory RAG in Radiation Protection *Sang Don Kim, Jeongin Kim*
- **PTu-13** A Case Study of Radiation Dose Assessment for Sabotage of Nuclear Facilities *Kwang Pyo Kim*
- **PTu-14** Analysis of Physical Protection Zones against Sabotage in Nuclear Security Frameworks *Kwang Pyo Kim*
- **PTu-15** Securing Radioactive Sources in Armed Conflict: Lessons for Resilience and Crisis Preparedness *Nataliia Klos, Suzanne Carlson*
- **PTu-16** THE RADON BIOBANK “RADI” (RADON INHOUSE): A BIOBANK TO DECIPHER RADON-INDUCED SYSTEMIC EFFECTS *Andreas Wörner*
- **PTu-17** Biodosimetry in Practice at the Hungarian Defence Forces *Enikő Kis, Eszter Persa*
- **PTu-18** Animal model system for investigating biokinetics and internal dosimetry of nuclear fuel compounds for inhalation hazard assessment *Jais Kavumkal*
- **PTu-19** Proteomic Signatures Associated with Survival Following Radiation Exposure in Minipigs *Ales Tichy*
- **PTu-20** Elaboration of a methodological advanced framework for the assessment and management of radiological risk associated with NORM residues *Alison Lopes da Silva*
- **PTu-21** AI-Enhanced Rapid Assessment of Urban Atmospheric Contamination for Radiological Emergency Preparedness and Response *Anna Wawrzyńczak-Szaban*
- **PTu-22** Assessing the variation of DNA damage response of individual human cells exposed to photon radiation *Andrzej Wojcik*
- **PTu-23** Radiation Emergency Medical Preparedness and Response Regulation of Nuclear Licensees in South Korea: A Review of the Integrated Regulatory Framework *Sejong Lee*
- **PTu-24** A Space Radiation Health Risk Assessment Model Based on Chinese Population Biological Parameters and Its Application in Lunar Missions *Congchong Yan*
- **PTu-25** Estimating Spatially Resolved Radiation Fields Using Neural Networks *Felix Lehner*
- **PTu-27** Does exposure to weathered coal ash with an enhanced content of uranium-series radionuclides affect flora and fauna - focusing on element transfer, dosage and toxicity assessment *Ivica Prlic*
- **PTu-28** What does Germany think about radiation and radiological emergencies? Results from a survey in 2026 *Matthias Klaes*
- **PTu-29** Experimental Calibration and Monte Carlo Performance Qualification of a Mobile NaI(Tl) Anthropogammametry System for Thyroid and Lung Monitoring *Bouchra Lebied*

18:00

END

18:00 – 20:00

GA PIANOFORTE

FORUM

09:00 – 09:45 FORUM	Keynote — Key Topic 2: Radiation Protection in a Changing World Jonas Muff		
09:45 – 10:15 FORUM	Platform Statements (6 × 5 minutes) Brief statements from the platforms on their priorities, contributions, and strategies in the context of AI-driven innovation and digital transformation		
10:15 – 11:00 FORUM	Roundtable Discussion (cross-platform) Joint discussion building on the platform statements, focusing on AI-related challenges, opportunities, and cross-platform collaboration; WHO Katalin Lumniczky (MELODI), Christoph Hoeschen (EURAMED), Hans Rabus (EURADOS), Antony Bexon (NERIS), Olivier Armant (ALLIANCE), Yevgeniya Tomkiv (SHARE), Zhanat Kenbayeva (WHO)		
11:00 – 12:00 FORUM	ALARA & LNT (cross-platform) — "Are we too conservative in radiation protection?" Moderated, multi-stakeholder panel. Chair: Fieke Dekkers. Panelists: Claudia Engelhardt (HERCA), Werner Rühm (ICRP), Thierry Schneider (ICRP), Michael Hauptmann (MHB) and Lonneke van Bochove (Stralingsupport) Simone Mörtl (BfS)		
12:00 – 13:15 FOYER	Lunch Break		
13:15 – 14:30 FORUM	PARALLEL SESSIONS		
S1.2 Environmental Preparedness & Recovery	S2.2 AI in Medical Radiation Protection	S3.2 Nuclear Medicine & Theranostics	
Chair Rodolphe Gilbin Co-Chair Jelena Popic	Chair Christoph Hoeschen Co-Chair Graciano Paul	Chair Weibo Li Co-Chair Uta Eberlein	
13:15–13:25 REGULAR TALK S1.2 – 1 From Principles to Practice: How Is Environmental Radiological Protection Really Applied Worldwide? Mike Webley 13:25–13:35 REGULAR TALK S1.2 – 2 40 years of post-Chornobyl retrospective dosimetry: accomplishments and implications for future events Vadim Chumak 13:35–13:45 REGULAR TALK S1.2 – 3 Best practices for establishing a citizen science network for ionizing radiation monitoring Anna Mrozik 13:45–13:55 REGULAR TALK S1.2 – 4 Improvements in atmospheric dispersion modelling and protective action strategies in case of nuclear detonations – Overview of the PREDICT project Clemens Woda 13:55–14:05 REGULAR TALK S1.2 – 5 Source-term screening for a Copenhagen Atomics-like molten salt reactor Josef Hisanawi 14:05–14:10 PITCH TALK	13:15–13:28 TALK WITH Q&A S2.2 – 1 VERIFIED – Real time 2D dosimetry system in a highly realistic anthropomorphic thorax phantom Luana Nascimento 13:28–13:41 TALK WITH Q&A S2.2 – 2 Real-Time Hand Deformation Modelling and Syringe/Vial Segmentation for Extremity Dose Monitoring in Nuclear Medicine Francisca Abbey Blay 13:41–13:54 TALK WITH Q&A S2.2 – 3 Radiation FAIR and Open Science: Advancing Data Sharing for Future Radiation Protection Omid Azimzadeh 13:54–14:07 TALK WITH Q&A S2.2 – 4 A Machine Learning methodology for dose estimates in x-ray breast imaging for arbitrary patients based on a breast model with patient-specific fibroglandular distribution Antonio Sarno 14:07–14:12 PITCH TALK S2.2 – 5 Interactions between leptin, sex hormones, and radiation alter gene expression responses in breast cancer cells Joanna Tobiasz 14:12–14:17 PITCH TALK	13:15–13:25 REGULAR TALK S3.2 – 1 Reference compartmental models for biokinetics and dosimetry of 68Ga- and 18F-labelled prostate-specific membrane antigen ligands [68Ga]Ga-PSMA-11 and [18F]F-PSMA-1007 Alexandra Kamp 13:25–13:35 REGULAR TALK S3.2 – 2 Bridging Physics and Biology for Internal Emitters: The FORRC Approach to Mechanistic Dose-Response Modelling Ana Vaniqui 13:35–13:45 REGULAR TALK S3.2 – 3 Inhalation dose assessment for medical staff and caregivers exposed to Rn-219 gas and its progeny exhaled from patients undergoing treatment with Ra-223-dichloride Weibo Li 13:45–13:55 REGULAR TALK S3.2 – 4 A Gestation-Dependent Biokinetic Model of Foetal Thyroid Dose Following Clinical Radioiodine Procedures Bill Kamtchou 13:55–14:05 REGULAR TALK S3.2 – 5 Setting up an in-house TL based environmental dose monitoring system for	

S1.2 – 6 Challenging RNA seq Data Analysis Under Low Signal-to-Noise Conditions: Application to Radiation and Chemical Co-Exposure  <i>Imene Garali</i> 14:10–14:15 PITCH TALK S1.2 – 7 Life-time attributable risk of cancer compared to collective dose detriment in Sweden after the Chernobyl Nuclear Power Plant accident  <i>Mats Isaksson</i> 14:15–14:30 Joint Discussion	S2.2 – 6 Human-Centred Implementation of AI in Medical Radiology: Workforce Barriers, Trust and Governance in Israeli Radiology  <i>Lior Moskovich</i> 14:17–14:30 Joint Discussion	the NM department at a major public hospital  <i>Matthias Sultana</i> 14:05–14:10 PITCH TALK S3.2 – 6 Development and Preliminary Validation of a Voxel-Dosimetry-Based Treatment Planning System (TPS) for β-Emitting Radionuclide Therapy  <i>Haijing Jin</i> 14:10–14:15 PITCH TALK S3.2 – 7 Development of a Monte Carlo occupational radiation dosimetry model for surgeons during liver transplantation post-90Y Selective Internal Radiation Therapy (SIRT)  <i>Niamh McArdle</i> 14:15–14:20 PITCH TALK S3.2 – 8 Auger-Emitting Radionuclides in Nuclear Medicine: Addressing Unrecognized Occupational Exposure Risks  <i>Akash Jana</i> 14:20–14:30 Joint Discussion
---	---	--

14:30 – 15:00

Coffee Break 

FOYER

15:00 – 16:30

FLASH TALKS & POSTER SESSION

FORUM

15:00-15:30

 Selected participants present their posters to the plenary in brief flash talks, followed by a gallery walk through the poster exhibition.

- WFT 1 – CITISTRA – Sociological aspects of citizen radiation measurements — *Marie Davidková*
- WFT 2 – Protection Under Pressure: Protective Actions Following Nuclear Detonation — *Emma Davidson*
- WFT 3 – From Laboratory Validation to Routine Environmental Monitoring: Deployment of the CzechRad Detector in a Citizen-Based Ionizing Radiation Monitoring Network — *Mateusz Krzysiek*
- WFT 4 – A viable method for quantifying residual radioactivity in vivo by scintigraphy following iodine-131 treatment — *Xiaoxi Pang*
- WFT 5 – Three-Dimensional (3D) Mapping of Radiation Response in Multi-layered Gafchromic LD-V1 Films Irradiated with fluorodeoxyglucose (FDG) — *Mohammad Yoshandi*
- WFT 6 – Education and Training for Sustainable and Resilient Radiation Monitoring Capabilities in EPR — *Benjamin Zorko*
- WFT 7 – Spatial-temporal evolution and potential source identification of ^{137}Cs in ground level air in Sweden — *Fran Pinero-García*
- WFT 8 – Influence of time changes in the source term on the transfer of radionuclides to groundwater from liquid discharges in NORM industries using synthetic test scenarios — *Francisco Javier Guillén Gerada*
- WFT 9 – Beyond DNA Damage: Cerebellar Microenvironment Drives Radiation-Induced Tumorigenesis — *Simonetta Pazzaglia*
- WFT 10 – Role of the Cerebellar Microenvironment Response to Ionizing Radiation in the Induction and Progression of Medulloblastoma: Evidence from an Ex Vivo Organotypic Culture Model — *Francesca Antonelli*

15:30-16:30

AUDITORIUM

Walk through Poster Exhibition 

- PWe-1 Comparison of the effective inhalation and ingestion dose within the framework of the German “Calculation Guide Mining” with respect to the dose coefficients provided in ICRP 72 and updated by ICRP 158 - *Jens Fohlmeister*
- PWe-2 Translating ICRP radiation protection principles and ethical values into occupational health language: exploratory interviews with occupational physicians from Japanese companies operating overseas industrial sites - *Hiroko Kitamura*
- PWe-3 Internal Dosimetry of Short-Lived Alpha Emitters: Current Challenges and Approaches - *Sven Hartmann*
- PWe-4 Development of a Directional Neutron Spectrometer and Its Application in Epithermal Neutron Beam Measurement - *Zhihui tang*
- PWe-5 Dose-Rate Effects of Radiation Relevant to Breast Cancer Risk Assessment: Mammary Epithelial Cell Dynamics in a Rat Model - *Kento Nagata*

- PWe-6 Development of a real-time monitoring framework for indoor radon progeny particle size distribution measurements - *Dalma Günter*
- PWe-7 Developing the Next Generation of Radiation and Radiological Security Professionals in the Era of Emerging Technologies: Lessons from an International Expert Roundtable - *Suzanne Carlson*
- PWe-8 Comprehensive EARL Accreditation for F-18, Ga-68, and Brain PET/CT: A Colombian Institutional Experience - *Oscar Azula*
- PWe-9 Pioneering Precision Oncology: How the Nuclear Medicine Department at INC Achieved Six Global Accreditations - *Julian Orlando Paez Lopez*
- PWe-10 Impact of Incorporating Organically Bound Tritium (OBT) in PC-CREAM: Model Intercomparison and Sensitivity Analysis - *Lucie Coath*
- PWe-11 A Time-Dependent Ac-225 Decay Chain Source Model for Cellular Dosimetry Including Recoil Nuclei: A FORRCE Project Contribution - *Maria Luz Olaguibe*
- PWe-12 Integrating Stakeholder Needs into Radiation Protection Research Across Disciplines - *Jelena Mrdakovic Popic*
- PWe-13 Application of Radiation Consequence Codes for Small Modular Reactors - *Anna Selivanova*
- PWe-14 PTB Reference Sites for Environmental Dosimetry: A Unique Infrastructure for Intercomparisons and Research - *Faton Krasniqi*
- PWe-15 H*(10) Results for the Spectrodosimetry and Classical Counting Systems in the EURADOS Intercomparison IC2024spec - *Ulf Stolzenberg*
- PWe-16 Development and validation of an internal dosimetry for actinium-225 through excretion analysis - *Raashina Ulakanathan-Thavarajah*
- PWe-17 The Impact of Co-occurring Chemical and Physical Stressors on Environmental Radiation Hazard - *Boguslaw Michalik*
- PWe-18 Evaluation of a Custom 3D-Printed Eye Lens Dosimeter Adapter for Radiation Exposure Monitoring in Interventional Procedures. - *Georgios Kyranos*
- PWe-19 Presentation of a multiple donor dose-response calibration curve and comparative methodologies for Dicentric Chromosome Assay (DCA) - *Anna Francès-Abellán*
- PWe-20 Washing strategy for soils contaminated with radionuclides: strontium and cobalt - *Concepción Olondo Castro*
- PWe-21 A Summary of Current Findings from the IMMPRINT Project: Integrated Molecular Imaging for Personalized Biomarker-Based Breast Cancer Characterization and Treatment - *Kunal Kumar, Xiaolei Yan*
- PWe-22 SUCORA Project: Establishing the criteria for the consideration of radiologically contaminated soils identifying the key parameters of dose-assessment model parameters: a sensitivity analysis - *Concepción Olondo Castro*
- PWe-23 Associations between natural radionuclides in borehole water and Overall and Site-Specific cancer risk: a comprehensive population-based study from Finland - *Peng Li*
- PWe-24 An investigation of long-term progression of carotid intima media thickness in a cohort of Chernobyl clean-up workers: Integrating molecular, subclinical, and lifestyle factors - *Joshua Louis Ziegler*
- PWe-25 Characterization of custom G-code calibration phantoms for tissue equivalence study - *Victor Bender*
- PWe-26 Impact of the new operational quantities on the dosimetry of medical staff wearing protective apron - *Filip Vanhavere*
- PWe-27 Study of an Emergency Scenario Involving a Nuclear Power Vessel - *Paulo Nunes, Sara Mendes*
- PWe-28 Assessment of mobility and potential bioavailability of radioactive and non-radioactive hazardous elements co-occurring in soil - *Dorottya Jakab*
- PWe-29 Passive Gamma-Field Mapping of Tc-99m Sources Using β -CaSiO₃ Thermoluminescent Pellet Arrays - *Carlos Gonzales Lorenzo*

16:30 – 17:30

FORUM

Radiation Effects on the Immune System (REIS2026) — MELODI Workshop Summary and Discussion

Chairs: *Serge Candeias, Florence Miller*.  Speakers: *Katalin Lumniczky, Alexandra Mekes-Adamczyk, Anna Dubrovskaya, Serge Candeias*

Radiation & the Immune System: Diversity Drives Response. Four experts will examine key aspects of the interplay between ionising radiation and the immune system, highlighting how immune variability influences radiation responses.

18:00 – 21:00

Get Together

21:00

END

09:00 – 09:45 FORUM Keynote — Key Topic 3: Quality of Life & One Health Ursula Nestle		
09:45 – 10:15 FOYER Coffee Break		
10:15 – 11:30 PARALLEL SESSIONS		
FORUM S1.3 RP in the Nuclear Renaissance – New Technologies, New Challenges Chair Anna Wawrzyńczak-Szaban Co-Chair Fabrizio Gabrielli 10:15–10:25 REGULAR TALK S1.3 – 1 Emergency Planning Zones Across Europe for Novel Nuclear Reactors: Practical Differences in National Implementation Anna Wawrzyńczak-Szaban 10:25–10:35 REGULAR TALK S1.3 – 2 Validation of JRODOS and QUIC for atmospheric dispersal simulations in urban environments Michał Jędrzejczyk 10:35–10:45 REGULAR TALK S1.3 – 3 Research on Key Technologies for Digital Radiation Protection and the Development of the SMARP System in Nuclear Facilities Peitao Song 10:45–10:55 REGULAR TALK S1.3 – 4 RANE: Bridging the Gap Between Rapid Generic Response and Accurate Plant-Specific Decision Support in Nuclear Emergencies Juan Carlos de la Rosa Blul 10:55–11:05 REGULAR TALK S1.3 – 5 Assessing the Environmental and Radiological Impact of Small Modular Reactors (SMRs) Across Different Landscapes Anca Tacu 11:05–11:10 PITCH TALK S1.3 – 6 Physics-Informed Gaussian Process regression for 3D dose rate field reconstruction in decommissioning environments Federica Roberto 11:10–11:15 PITCH TALK S1.3 – 7 Preliminary Results of the GIROSCOPE Model Intercomparison Benchmark: Validation Against in Situ Close-Range Dispersion Measurements Guilhem Balvet 11:15–11:20 PITCH TALK S1.3 – 8 Design and validation of novel active ambient neutron dosimeters: addressing technological gaps for a changing radiation protection landscape Ariel Tarifeno-Saldivia 11:20–11:30 Joint Discussion	PLENUM S2.3 Innovation in Therapy & Imaging Chair Christoph Hoeschen Co-Chair Graciano Paul 10:15–10:28 TALK WITH Q&A S2.3 – 1 Study of actinide decontamination using an ex vivo model of damaged rat skin Laurie De Castro 10:28–10:41 TALK WITH Q&A S2.3 – 2 Implications of Revised Skin Contamination Dose Coefficients for High Energy Alphas Holly Laakso 10:41–10:54 TALK WITH Q&A S2.3 – 3 Optimising CT Head Imaging in Mild Traumatic Brain Injury: A Biomarker Guided Approach to Radiation Protection Paul Tansey 10:54–11:07 TALK WITH Q&A S2.3 – 4 Optimizing the benefit-risk ratio in breast cancer diagnosis and radiotherapy through molecular, cellular, and imaging signatures of tumour heterogeneity Katalin Lumniczky 11:07–11:12 PITCH TALK S2.3 – 5 Boron–Gadolinium Combined Neutron Capture Therapy for the Treatment of Malignant Prostate Cancer and Its Underlying Mechanisms Xiaoxi Pang 11:12–11:17 PITCH TALK S2.3 – 6 Medical diagnostic radiation promotes murine Apc/Kras-driven colon carcinogenesis Guillaume Vares 11:17–11:30 Joint Discussion	SKY LOBBY S3.3 Patient-centred Radiation Protection Chair Yevgenya Tomkiv Co-Chair Paddy Gilligan 10:15–10:25 REGULAR TALK S3.3 – 1 Strengthening Radiation Protection Through Shared Responsibility: Healthcare Professionals' Perspectives from South Africa Moyahabo Makgato / Shantel Lewis 10:25–10:35 REGULAR TALK S3.3 – 2 Prevention and minimization of patient risks in light of the significant increase in the number and availability of CT and Angiographic devices in Georgia Davit Nadareishvili 10:35–10:45 REGULAR TALK S3.3 – 3 Post-Irradiation Remodeling in Estrogen-, Progesterone- and Leptin-Stimulated Breast Epithelial Cells Domenico Aprile 10:45–10:55 REGULAR TALK S3.3 – 4 Ionizing radiation cancer risks modelling associated with screening practices for breast and lung cancer Marie-Odile Bernier 10:55–11:05 REGULAR TALK S3.3 – 5 Radiation Awareness and Occupational Concerns Among Nurses working with ionising radiation - A Danish survey Karen Brage 11:05–11:10 PITCH TALK S3.3 – 6 Diagnostic radiology procedures during pregnancy: Initial findings from SONORA in phantom measurements and EURADOS WG12 multi centre fetal dose estimations Christos Pafilis 11:10–11:15 PITCH TALK S3.3 – 7 CLAUD-IT: Improving clinical audits across European borders Esther Koke 11:15–11:30 Joint Discussion

11:30 – 12:30

Lunch Break 

FOYER

12:30 – 13:30

PIANOFORTE: Research. Results. Radiation Protection.

Chair: Florian Rauser.  Panelists: Hildegard Vandehove (Director of the IAEA Division of Radiation Safety, Transport and Waste Safety), Matthias Port (CBRN Medical Defence Commissioner of the Commander of the Bundeswehr Joint Medical Service), Zhanat Kenbayeva (WHO Radiation and Health Unit, REMPAN); Fred Marin (USIL Therapeutics S.A.)

The session includes a status update on the partnership and a panel discussion to showcase stakeholder perspectives on impact, gaps and future needs in radiation protection research.

13:30 – 14:30

Round Table: Combined Exposures and Cancer Risk – Gaps in Knowledge and Research Priorities

Chair: Andrzej Wojcik.  Speakers: Andrzej Wojcik, Guillaume Vares, Nora Fenske

- **Combined Exposures and Cancer Risk:** Exploring how radiation interacts with environmental risk factors and other carcinogens, including mechanisms of cancer development and insights from radiation and environmental epidemiology
- **Future Research Directions:** Identifying key knowledge gaps, cross-cutting research topics and priorities for understanding combined exposures
- **Discussion & Conclusions:** Q&A and identification of next research and activity steps

14:30 – 15:15

Poster Walk / Coffee Break  

AUDITORIUM

- PTh-1 Clinically relevant cytogenetic biodosimetry for radiotherapy: anthropomorphic phantom-based dose-response calibration and in vivo validation *Lucián Zastko*
- PTh-2 Design and workplace performance of the DOIN electronic personal dosimeter for neutrons *Abner Ivan Castro Campoy*
- PTh-3 Transfer of sediment-derived carbon into blackworm (*Lumbriculus variegatus*) and crucian carp (*Carassius carassius*): Implications for 14C biosphere assessment in freshwater ecosystems *Soroush Majlesi*
- PTh-4 Transcriptomic biomarkers of systemic response to radiotherapy alone and combined radiotherapy–immunotherapy in breast cancer *Altay Myssayev*
- PTh-5 DOSELIA PROJECT TASK 6.1: Genetic Susceptibility to Radiation-Induced Cancer and Treatment Response: The Role of Trisomy 21, ATM, BRCA1/2 and Radiation Quality *Vasiliki Zanni*
- PTh-6 RANE: Bridging the Gap Between Rapid Generic Response and Accurate Plant-Specific Decision Support in Nuclear Emergencies *Juan Carlos de la Rosa Blul*
- PTh-7 The impact of inter- and intra- individual variability on the DNA damage response to ionising radiation *Hannah Mancey*
- PTh-8 Radiation Protection Challenges for the LHC Experiments in Long-Shutdown 3 *Robert Froeschl*
- PTh-9 Biomarkers of Radiation Response Following Curcumin Treatment in Human Peripheral Blood Lymphocytes *Sachin Gulati*
- PTh-10 Aberrant Grb10 expression associated with partial deletions of chromosome 11 in high-LET carbon-ion–induced mouse thymic lymphomas *Masaaki Sunaoshi*
- PTh-11 Glaucoma and cataract incidence among Korean radiation workers: a nationwide health insurance-linked cohort study *Sang Ah Lee*
- PTh-12 Construction materials and residues – introducing Croatian geothermal drilling waste issues *Ivica Prlic*
- PTh-13 Screening for molecular signatures of radiotherapy and immune system activation in Breast Cancer: a spatial multi-omics approach applied to ex-vivo cancer samples *Cecilia Riani*
- PTh-14 The monitoring for intakes of radionuclides in Germany: presentation of the revised guideline *Oliver Meisenberg*
- PTh-15 Excess absolute and relative risks of cancer mortality among Korean radiation workers following protracted low-dose occupational radiation exposure *Dalnim Lee*
- PTh-16 Potential Impact of Patient Care Involvement Ratio on Occupational Radiation Exposure in Cardiovascular Interventional Radiology *Tomoko Kuriyama*
- PTh-17 Beta irradiation facility BSS 2: an update *Rolf Behrens*
- PTh-18 Training Activities within the Project GuideRadPROS to Support a Better Implementation of ISO 4037 *Steffen Ketelhut*
- PTh-19 Towards Consistent X-ray Fields: Improving the Requirements for Beam Parameters and Validation in ISO 4037 *Steffen Ketelhut*
- PTh-20 Radiation Awareness and Occupational Concerns Among Nurses working with ionising radiation - A Danish survey *Karen Brage*

- PTh-21 Dose modelling for occupational exposure assessment in maintenance activities on large Oil & Gas components containing NORM residues *Rosabianca Trevisi*
- PTh-22 Development of a Prototype Active Area Dosemeter Based on Dosepix Pixel Detectors for Continuous and Pulsed Photon Radiation Fields *Jürgen Roth*
- PTh-23 Hybrid X-ray Dark-Field and Fluorescence Imaging for Low-Dose Molecular Imaging *Xiaolei Yan*
- PTh-24 Monte Carlo Evaluation of Multiplexed X-ray Fluorescence Imaging under In Vitro and In Vivo Conditions for Breast Cancer Heterogeneity *Muna Abboush*
- PTh-25 Mechanisms of radiation-induced breast cancer induction: role of sex hormones and obesity *Prabodha Kumar Meher*
- PTh-26 Evaluating γ-H2AX assay performance for sensitivity, variability, and implications for biodosimetry *Lindsay A. Beaton*
- PTh-27 Monte Carlo-Based Characterization of a New 450 kV X-Ray Irradiation Facility at PTB *Khadijeh Rezaee Ebrahimsaraee*
- PTh-28 Natural occurring radionuclides in High-Altitude Aerosols at Sierra Nevada (Granada, Spain) *Fran Pinero-García*
- PTh-29 ECRad: One ring to bind them all *Ämilie Degenhardt, et al*
- PTh-30 DOSE-DEPENDENT MULTI-OMICS SIGNATURES OF RADIATION-INDUCED MEDULLOBLASTOMA IN PTCH1⁺/⁻ MICE *Simonetta Pazzaglia*
- PTh-31 LINpass: A Versatile Passive Neutron Dosimeter for Clinical, Industrial and Aerospace Radiation Protection *Benedetta Brusasco*
- PTh-32 Low-dose X-ray exposure alters fibroblast and monocytic cell responses according to radiation dose and biological factors including age, sex, and immune status *Lena Winterling*
- PTh-33 Distribution of Patient Doses in Most Common Diagnostic Procedures from Computer Tomography and Angiography in Georgia: Initial Results *Davit Nadareishvili, Salome Kiparoidze*
- PTh-34 Estimates of relative biological effectiveness for α and β particles derived from epidemiological studies *Mark P Little*
- PTh-35 Fetal Radiation Dose in CT Pelvimetry: A Pilot Study from Northern Morocco. *Maher EL Fassi*
- PTh-36 Balancing Risks in Pregnancy: A Survey of Clinician Perceptions of Foetal CT Radiation and Modifiable Pregnancy Risk Factors *Paddy Gilligan*
- PTh-37 Ambient dose equivalent rate of terrestrial gamma radiation in Germany *Robert Schnell*
- PTh-38 OpenSLM: A web-based platform for stochastic modeling of aerosol deposition in the human lung *Dalma Günter*
- PTh-39 2nd International Workshop on Studies of Uranium Miners and Uranium Processing Workers – Summary, Conclusion and Impact *Nora Fenske*
- PTh-40 X-RAY MACHINES IN CROATIA – QUALITY CONTROL ASSESSMENT *Suzana Bedić*

15:15 – 16:15

FORUM

Joint Session: ICRP-MCC-Fund, MELODI + EURAMED Awards

15:15–15:25 ICRP–Marie Claire Cantone Fund Speaker –  *Speakers: Gianluigi Mussinelli, Augusto Giussani, Thierry Schneider, Werner Rühm*

15:25–15:50 MELODI Award

15:50–16:15 EURAMED Award

16:15 – 16:20

FORUM

MEENAS Poster Award for Trans-disciplinary Research

MEENAS award recognising the best poster outstanding trans-disciplinary work.

16:20 – 17:00

FORUM

Final Wrap-up & Take-Home Messages

 *Key research & policy messages per platform · Convergences/divergences · Inputs for SRIA & future EU programming*

17:00 – 17:10

FORUM

Announcement of ERPW 2027

17:10

END

17:10 – 19:00

SKY LOUNGE WEST

Pianoforte WP2 · ALLIANCE Internal Meeting