ERPW 2026

Conference Programme

MONDAY, 5 OCTOBER

13:00 – 18:00	RENEB
14:00 – 18:00	GA MELODI
15:00 – 17:00	Early Career Researcher
16:30 – 18:30	Pianoforte ExeB

FRIDAY, 9 OCTOBER

09:00 – 13:00	GA ALLIANCE
09:00 – 11:00	LCA4NORM + Multiplex
09:00 – 11:00	GIROSCOPE + CATAPULT
09:00 – 10:30	GA EURAMED
09:30 – 12:00	RRADEW
13:00 – 15:00	MEENAS

TUESDAY, 6 OCTOBER

09:00 – 09:30 — **Opening Plenary — Welcome & Conference Framing**
Inge Paulini (President, BfS), Annette Röttger (Member of the Executive Committee, PTB)

09:30 – 10:15 — **Keynote — Key Topic 1: Security and Preparedness**
Frank Sauer

10:15 – 10:45 — **Coffee Break**

10:45 – 12:00 — **PARALLEL SESSIONS**

S1.1 Radiation Safety in Crisis Situations

Chair Florian Gering (tbc)
Co-Chair Marie Simon-Cornu

10:45–10:55 REGULAR TALK
S1.1 – 1 On the health significance of reference levels adopted in radiological emergency situations: towards complementary metrics?
Quentin Couanau

10:55–11:05 REGULAR TALK
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

11:05–11:15 REGULAR TALK
S1.1 – 3 From meteorology to improved thresholds in nuclear surveillance networks
Katharina Münster

11:15–11:25 REGULAR TALK
S1.1 – 4 Developing a radiation-protection strategy considering residual doses
Mario Gaspar Quarenta

11:25–11:35 REGULAR TALK
S1.1 – 5 Protecting forces deployed during nuclear security events: Trusted methods and new innovation
Emily Alice Kroeger

11:35–11:40 PITCH TALK
S1.1 – 6 PREDICT: How to improve simulation models for nuclear detonation events
Wolfgang Raskob

11:40–11:45 PITCH TALK
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***

S2.1 AI for Monitoring & Dose Management

Chair Irène Korsakissok
Co-Chair Dorottya Jakab, Antonio Sarno

10:45–10:58 TALK WITH Q&A
S2.1 – 1 Machine-Learning-supported probabilistic indoor radon mapping for population exposure monitoring and dose management in Germany
Eric Petermann

10:58–11:11 TALK WITH Q&A
S2.1 – 2 Quality Assessment and Integration of Citizen Environmental Radiation Monitoring during Nuclear Emergencies: Activities of the CIThARA Project
Sara Della Monaca

11:11–11:24 TALK WITH Q&A
S2.1 – 3 Machine Learning Enhanced Analysis of Silica Glass Jewellery Beads for Thermoluminescence Dosimetry Health Monitoring
Lukasz Tomaszewski

11:24–11:37 TALK WITH Q&A
S2.1 – 4 ACCREDITED project: advancement in computational dosimetry for complex radiation fields
Daniela Passeri

11:37–12:00 ***Joint Discussion***

S3.1 One Health & Environment

Chair Ivica Prlić
Co-Chair Franck dal-Molin

10:45–10:58 TALK WITH Q&A
S3.1 – 1 Human-Mouse Comparison of Radiation-Related Cancer Mortality Using the Two-stage Clonal Expansion Model
Tatsuhiko Imaoka

10:58–11:11 TALK WITH Q&A
S3.1 – 2 Development of a dosimetric voxel model for a marine mammal
Elin Wefer

11:11–11:24 TALK WITH Q&A
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

11:24–11:37 TALK WITH Q&A
S3.1 – 4 Internal accumulation and reproductive toxicity of chronic radium-224 exposure in Caenorhabditis elegans
Hengyi Zhu

11:37–11:50 TALK WITH Q&A
S3.1 – 5 Low Natural Background Radiation Induces Functional and Transcriptomic Reprogramming of Human Mesenchymal Stromal/Stem Cells
Nicola Alessio

11:50–12:03 TALK WITH Q&A
S3.1 – 6 A decade of radioactive contamination in Fukushima: reproductive alteration in tree frogs across biological scales
Olivier Armant

12:03–12:18 ***Joint Discussion***

12:00 – 13:00 — **Lunch Break**

13:00 – 14:00 — **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	**Welcome Address** *Carsten Schneider, Federal Minister for the Environment, Germany*
14:45 – 15:15	**Coffee Break**
15:15 – 16:30	**Metrology in Radiation Protection Dosimetry** *Chair: Oliver Hupe 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	**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 — Christiane Pölzl-Viol
- **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

18:00	**END**
18:00 – 20:00	**GA PIANOFORTE**

WEDNESDAY, 7 OCTOBER

09:00 – 09:45	**Keynote — Key Topic 2: Radiation Protection in a Changing World** *Jonas Muff*
09:45 – 10:15	**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	**Roundtable Discussion (cross-platform)** *Joint discussion building on the platform statements, focusing on AI-related challenges, opportunities, and cross-platform collaboration; WHO*
11:00 – 12:00	**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)*
12:00 – 13:15	**Lunch Break**
13:15 – 14:30	**PARALLEL SESSIONS**

S1.2 Environmental Preparedness & Recovery

Chair Rodolphe Gilbin
Co-Chair Jelena Popic

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
S1.2 – 6 Challenging RNA seq Data Analysis Under Low Signal-to-Noise Conditions: Application to Radiation and Chemical Co-Exposure
Imene Garali

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
Mats Isaksson

S2.2 AI in Medical Radiation Protection

Chair Christoph Hoeschen
Co-Chair Katrine Riklund

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
S2.2 – 6 Human-Centred Implementation of AI in Medical Radiology: Workforce Barriers, Trust and Governance in Israeli Radiology
Lior Moskovich

14:17–14:30 ***Joint Discussion***

S3.2 Nuclear Medicine & Theranostics

Chair Weibo Li
Co-Chair Uta Eberlein

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 FORRCE 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 the NM department at a major public hospital
Matthias Sultana

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
Haijing Jin

14:10–14:15 PITCH TALK

14:15–14:30 *Joint Discussion*		**S3.2 – 7 Development of a Monte Carlo occupational radiation dosimetry model for surgeons during liver transplantation post-90Y Selective Internal Radiation Therapy (SIRT)** *Una Maguire* **14:15–14:20** PITCH TALK **S3.2 – 8 Auger-Emitting Radionuclides in Nuclear Medicine: Addressing Unrecognized Occupational Exposure Risks** *Akash Jana* **14:20–14:30** *Joint Discussion*
14:30 – 15:00	**Coffee Break**	
15:00 – 16:30	**FLASH TALKS & POSTER SESSION**	

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 Davídková
- **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 137Cs 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 — Barbara Tanno
- **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

Walk through Poster Exhibition

16:30 – 17:30	**Radiation Effects on the Immune System (REIS2026) — MELODI Workshop Summary and Discussion** *Chairs: Serge Candeias, Florence Miller. Speakers: Katalin Lumniczky, Alexandra Mekes-Adamczyk, Anna Dubrovska, and Serge Candeias* **Radiation & the Immune System: Diversity Drives Response.** Four experts will examine key aspects of the interplay between ionizing radiation and the immune system, highlighting how immune variability influences radiation responses.
18:00 – 21:00	**Get Together**
21:00	**END**

THURSDAY, 8 OCTOBER

09:00 – 09:45 — **Keynote — Key Topic 3: Quality of Life & One Health**
Ursula Nestle

09:45 – 10:15 — **Coffee Break**

10:15 – 11:30 — **PARALLEL SESSIONS**

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***

S2.3 — Innovation in Therapy & Imaging

Chair Christoph Hoeschen
Co-Chair Katrine Riklund

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

11:17–11:22 PITCH TALK
S2.3 – 7 Integrated Biomarkers of Radiation Exposure, Individual Radiosensitivity and Radiation-Induced Genetic Instability: Applications in Biodosimetry and Radiation Protection
Igor Beliaev

11:22–11:37 ***Joint Discussion***

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
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

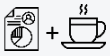
11:05–11:10 PITCH TALK
S3.3 – 6 Diagnostic radiology procedures during pregnancy: Initial findings from SONORA in phantom measurements and EURADOS WG12 multi centre fetal dose estimations
Christos Pafilis

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**

12:30 – 13:30 — **PIANOFORTE: Research. Results. Radiation Protection.**

	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. *Chair: Florian Rauser. Panelists: Hildegarde Vandehoven (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); Industry representative (tbc)*
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, Thomas Blankenstein, Nora Fenske & Irina Lehmann* • ***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 — Andrzej Wojcik, Guillaume Vares, Thomas Blankenstein, Nora Fenske & Irina Lehmann* • ***Future Research Directions:*** *Identifying key knowledge gaps, cross-cutting research topics and priorities for understanding combined exposures (all speaker)* • ***Discussion & Conclusions:*** *Q&A and identification of next research and activity steps — All / Andrzej Wojcik*
14:30 – 15:15	**Poster Walk / Coffee Break** 
15:15 – 16:15	**Joint Session: ICRP-MCC-Fund, MELODI + EURAMED Awards** *15:15–15:25 ICRP–Marie Claire Cantone Fund Speaker – Speakers:Werner Rühm (ICRP), Augusto Giussani, N.N. (tbc)* *15:25–15:50 MELODI Award* *15:50–16:15 EURAMED Award*
16:15 – 17:00	**Final Wrap-up & Take-Home Messages** *Key research & policy messages per platform · Convergences/divergences · Inputs for SRIA & future EU programming*
17:00	**END**
17:00 – 19:00	**Pianoforte WP2 · ALLIANCE Internal Meeting**