NERIS Workshop 2026

28 - 30 April 2026

ASNR, Fontenay-aux-Roses (France)

ASNR Auditorium, 31 avenue de la Division Leclerc, 92260 Fontenay-aux-Roses

Tuesday 28th April

8h30 - 9h15	Welcoming	
9h15 - 9h30	Introducing words	Olivier Isnard (ASNR)
9h30 - 10h30	Session 1: Frameworks and lessons learned in EPRR	Eduardo Gallego (UPM)
	• Windscale, Chornobyl and Fukushima: What we learnt and what we forgot along the way	Deborah Oughton (NMBU)
	• Tolerability and reasonableness in post-acidental situation	Thierry Schneider (CEPN)
	• A step forward for citizen-led measurements of radioactivity?	Jean-Marc Bertho (ASNR)
10h30 - 11h00	Coffee break	
11h00 - 12h30	Session 2: EPRR in armed conflicts, nuclear detonations (1)	Deborah Oughton (NMBU), Antony Bexon (UKHSA)
	• Enhancing Nuclear Resilience in Armed Conflicts: A New EPRR Paradigm	Yulia Ruban (ISP NPP)
	• Strengthening Nuclear and Radiological Emergency Resilience Under Conflict Conditions: Insights from a Spanish Expert Panel under the RRADEW Project on a Missile Strike Scenario at a Nuclear Power Plant	Blanca García-Puerta (CIEMAT)
	• Development of Recommendations for Protective Actions in Nuclear Detonation Scenarios	Yevgeniya Tomkiv (NMBU)
	• Educational resilience citizen monitoring network – an innovative transfer of knowledge	Ivica PRLIC (IMI)
12h30 - 13h30	Lunch break	
13h30 - 15h30	Session 2: EPRR in armed conflicts, nuclear detonations (2)	
	CITISTRA: Citizen measurements as complementary radiation monitoring in threats due to conflict.	Chair: Marie Davidkova (SURO)
	• PIANOFORTE CITISTRA - summary of the current status and project achievements	Jan Helebrant (SURO)
	• Network of CzechRad mobile gamma radiation detectors in Poland – infrastructure for determining the local as well as spatial distribution of dose rates in threats due to armed conflict or natural disasters	Renata Kierepko (IFJ PAN)
	• Results of thyroid measurements with CzechRad detector	Pavol Ragan (SMU)
	• PREDICT: ImPRovements in atmospheric dispErsion moDelllng and proteCTive action strategies.	Chair: Clemens Woda (BfS)
	• PREDICT - overview and status quo	Clemens Woda (BfS)
	• Model comparison and model uncertainties for nuclear detonation scenarios	Wolfgang Raskob (KIT - consultant)
15h30 - 16h00	Coffee break	
16h00 - 17h00	Session 2: EPRR in armed conflicts, nuclear detonations (3)	
	RRADEW: Resilience to RADiological Events in Wartime.	Chair: Pascal Croüail (CEPN)
	• AI in the Fog of War: Can Artificial Intelligence Really Support Resilience in Wartime?	Elsa Gisquet (ASNR)
	• Assessing the resilience of an EPR&R system for radiological events to wartime.	Thomas Makumbi (KIT)
	• An ethical dimension to radiation protection under armed conflicts	Deborah Oughton (NMBU)

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Wednesday 29th April

9h00 - 10h30	Session 3: Countermeasures, decision support, disaster informatics (1)	Chairs: Milagros Montero (CIEMAT), Paulo Nunes (APA)
	• The Swedish remediation expert group NESA	Anna Maria Blixt Buhr (SSM)
	• Development of AtomCARE Training Module Using Nuclear Power Plant Simulator Information	Hyoyoung Maeng (KINS)
	• Preventive measures against antagonistic use of hazardous substances int the public environment: Strengthened professional approaches, impact assessment, and detection methods: A multidisciplinary study focusing on radiological and nuclear (RN) antagonistic events	Christopher L. Rääf (Lund University)
	• National propositions for post-accidental management in case of nuclear releases in the marine environment	Olivier Radakovitch (ASNR)
10h30 - 11h00	Coffee break	
11h00 - 12h00	Session 3: Countermeasures, decision support, disaster informatics (2)	Chairs: Milagros Montero (CIEMAT), Paulo Nunes (APA)
	• Improved modelling of the radiological consequences and remediation effectiveness after nuclear blast fallout in inhabited areas	Thomas Charnock (UKHSA)
	• AI-Enhanced Urban Atmospheric Dispersion Modelling for Radiological Emergency Preparedness and Decision Support	Anna Wawrzynczak-Szaban (NCBJ)
	• Towards End-to-End Modelling and Decision Support for Nuclear and Radiological Emergencies	István Szőkr (IFE)
12h00 - 13h00	Lunch break	
13h00 - 14h30	Session 4: EPRR for New Nuclear Technologies (1)	Chairs: Luke Lebel (CNL), Wolfgang Raskob (KIT)
	• Assessing the predictive gap between Gaussian and CFD dispersion models in complex urban flow	Dana Sarah Lüdemann (DTU)
	• A methodology to estimate near source gamma shine outside of Gaussian or semi-infinite assumptions applied to GIROSCOPE WP3 case studies.	Guilhem Balvet (ASNR)
	• Radiological Emergency Planning Zones for SMRs: A JRODOS-Based Assessment	Piotr Kopka (NCBJ)
	• Integration of tritium functionalities into JRODOS	Wolfgang Raskob (KIT)
14h30 - 15h00	Coffee break	
15h00 - 17h00	Session 4: EPRR for New Nuclear Technologies (2)	
	CATAPULT: Comprehensive Assessment and Preparedness for Emerging Nuclear Technologies	Chair: Fabrizio Gabrielli (KIT)
	• The CATAPULT project: structure, methodology, scope and goals	Fabrizio Gabrielli (KIT)
	• The Source term and siting CATAPULT database	Fabrizio Gabrielli (KIT)
	• Radionuclide Transport and Dose Assessment for EIA and EP&R Frameworks for Modular Reactors	Johan Camps (SCK CEN)
	• Adapting European Licensing, EIA, and EP&R Frameworks for Modular Reactors	Marie Simon Cornu, N.S. Abdul Rashid (ASNR)
	GIROSCOPE: Guidance for Innovative Reactor Off-Site Consequences, Planned and Emergency	Chair: Anna Wawrzyńczak-Szaban (NCBJ)
	• GIROSCOPE WP2 source term assessment	Violeta Hansen (UGOT)
	• CNL accident cases for iPWR, SBWR, and HTGR for GIROSCOPE WP2	Luke Lebel (CNL)
	• Source-Term Calculation for Copenhagen Atomics Onion Reactor, Subtitle: A reverse engineering approach using OpenMC and SERPENT2	Josef Hisanawi (Oslo University / NMBU)
	• Modelling approaches for atmospheric transport of radionuclides from NNR technologies	Spyros Andronopoulos (NCSRD)
	• Emergency Planning Zones Across Europe: Practical Differences in National Implementation	Piotr Kopka (NCBJ)
	• Societal Perceptions of Novel Nuclear Technologies	Deborah Oughton (NMBU)

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Thursday 30th April

9h00 - 10h00	Session 5: Radiological impact assessment (1)	Chairs: Irène Korsakissok (ASNR), Violeta Hansen (GU)
	• Swedish investigations of dose calculation methods and the use of underlying geographical information in ARGOS	Anna Maria Blixt Buhr (SSM)
	• Radiological emergency evaluation and measures application in Switzerland	Francis Gagnon-Moisan (NEOC)
	• Dose Implications of Radioiodine Speciation, with a Case Study Using CANDU Severe Accidents	Luke Lebel (CNL)
10h00 - 10h30	Coffee break	
10h30 - 11h30	Session 5: Radiological impact assessment (2)	Chairs: Irène Korsakissok (ASNR), Violeta Hansen (GU)
	• Automatic anomaly detection in radiological monitoring networks using a hybrid wavelet-Kohonen method	Kathleen Pelé (ASNR)
	• Reconstructing a European Caesium 137 episode (September 2024) through inverse modelling	Hanane Bounouas (ASNR)
	• Review of Artificial Intelligence applications in nuclear or radiological Emergency Preparedness and Response	Spyros Andronopoulos (NCSRD)
11h30 - 12h30	CITHARA : Citizen engagement, AI-supported decision and trust for radiological impact assessment and emergency response	Chair: Spyros Andronopoulos (NCSRD)
	• Overall concept and objectives of the CIThARA project	Spyros Andronopoulos (NCSRD)
	• AI-based prediction of radiological consequences for emergency preparedness & response in the local scale	Anna Wawrzynczak-Szaban (NCBJ)
	• Citizen measurements data	Jean-Marc Bertho (ASNR)
	• AI-based long-range surrogate atmospheric dispersion modelling and advanced inverse modelling	Pieter De Meutter (SCK CEN)
	• Mastering Trust in Application of AI in Crisis Situations	Thierry Schneider (CEPN)
	• Questions and discussion	
12h30 - 12h45	Closing words	Olivier Isnard (ASNR)

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Posters

Radiological impact assessment	
• Improving Nuclear Detonation Dose Modelling Through GIS-Based Characterisation of the Built Environment	Claire Delides (UKHSA)
• Implementation of Environmental Monitoring Actions within the Radiological Emergency Plan of the Comunitat Valenciana	Mireia Simeó Vinaixa (IFIC)
• Performance of gamma detectors for emergency monitoring of radioactivity in drinking water	Jonathan Sundström (University of Gothenburg)
Countermeasures, decision support, disaster informatics	
• Optimization of alert and alarm limits for the Portuguese Early Warning Radiation Network (RADNET)	Lara Pereira (IST)
• Developing a radiation-protection strategy considering residual doses	Mario Gaspar Quarenta (RIVM)
• Information flows for nuclear detonation decision support system 'IRIS'	Michiel de Bode (RIVM)
• Measurement methodology for I-131 triage following a large-scale nuclear accident	Martin Hjellström (University of Gothenburg)
EPRR for New Nuclear Technologies	
• Assessing the Radiological Impact of a High Temperature Gas-cooled Reactor D-LOFC Accident	Baltasar Johannes Hemmerle (University of Oslo)