

Session Program

10-15 May 2026



RadChem 2026

Environmental Radioactivity

Casino Conference Centre
Reitenbergerova 4/95, Mariánské Lázně, Czech Republic

Monday 11 May

15:30

Environmental Radioactivity: RER 1

Session | Location: Marble Hall | Conveners: Michal Fejgl, Jakub Kaizer

15:30–15:48

Determination of ^{90}Sr and Pu isotopes in soil samples from various regions in Austria over the last twenty years

Speaker

Claudia Landstetter

15:48–16:06

Development and Technical Enhancement of Real-Time Monitoring Networks for Nuclear Emergency Response in the Czech Republic

Speaker

Michal Fejgl

16:06–16:24

Seasonal Trends in Radionuclide Concentrations in Austrian Aerosols

Speaker

Rainer Kadan

16:24–16:42

Electrolytic enrichment for low-level tritium measurements for environmental monitoring

Speaker

Paul Masselot

16:42–17:00

Recent applications of accelerator mass spectrometry in environmental studies and radiopurity measurements at CENTA

Speaker

Dr Jakub Kaizer

17:00

Tuesday 12 May

15:30

Environmental Radioactivity: RER 2

Session | **Location:** Red Hall | **Conveners:** Nick Evans, Ana Noguera

15:30–16:00

Colloid-Facilitated Transport of Uranium Elevates Environmental Risk: A Key Challenge for Immobilization-Based Remediation

Speaker

Duoqiang Pan

16:00–16:20

Cobalt and europium adsorption on nanoplastic particles

Speaker

Dr Galina Lujaniene

16:20–16:40

Tracing Nuclear Fallout: Questioning the dominance of weapon ^{137}Cs in wild boar

Speaker

Tobias Blenke

16:40–17:00

Global fallout pattern of ^{137}Cs recorded in Greenland ice core: Transport, scavenging, and methodological constraints

Speaker

Dr XUE ZHAO

17:00

Thursday 14 May

10:30

Environmental Radioactivity: RER 3

Session | Location: Marble Hall | Conveners: Claudia Landstetter, Sebastian Fichter

10:30–10:48

Tc soil to plant uptake from pot experiments to imaging at the nanoscale

Speaker

Clemens Walther

10:48–11:06

Influence of soil amendment with fly ash from Coal-Fired Power Plant on the transfer of naturally occurring radionuclides to wheat

Speaker

Francisco Javier Guillén Gerada

11:06–11:24

Distribution of Natural Radionuclides and Dose Assessment in Phosphate-Fertilized Soils

Speaker

Ana Noguera

11:24–11:42

Doramad - The Story of Radioactive Toothpaste

Speaker

Dr Nick Evans

11:42–12:00

Adaptations of Phaseolus vulgaris crop root exudate release to U(VI) in hydroponic environment

Speaker

Ms Julia Maetzkow

12:00

17:15

Environmental Radioactivity: Poster session

Session | Location: Gallery

17:15–17:18

Phosphorylation of Amino Acids with a PO₂ Synthase and Their Interaction with f-Elements

Speaker

Jeremy Long

17:18–17:21

Synthesis of Phosphorylated Peptides Using (py)₂PO₂[OTf] and Their Interaction with f-Elements

Speaker

Tom Pfandt

17:21-17:24

Accelerator Mass Spectrometric Analysis of $^{129}\text{I}/^{127}\text{I}$ ratios in INL sagebrush modelling FCF pyroprocessing's impact on environmental iodine levels in the Idaho desert**Speaker**

Mr Jacob Brookhart

17:24-17:27

Retrospective determination of ^{131}I thyroid equivalent doses via ^{129}I AMS analysis**Speaker**

Michal Fejgl

17:27-17:30

Onboard Rapid Determination of Radiocesium in Seawater: Development and Operational Application in Open-Ocean Monitoring**Speakers**

Ms Jaeun Lee, Dr Intae Kim

17:30-17:33

Bacillus pasteurii Ureolytic Products Coupled with U(VI) Immobilization: The Evolutionary process and action mechanism of Carbonate and Metabolic Protein**Speaker**

Xiaojing Lu

17:33-17:36

Basin-scale redistribution of Cs-137 and Pu-239,240 in the western Indian Ocean: A 6-decade perspective**Speaker**

Jaeun Lee

17:36-17:39

Hidden bioremediation potential: metal-tolerant rhizobacteria capable of barium and strontium removal from uranium-impacted ecosystems**Speaker**

Vira Velianyak

17:39-17:42

Spatially Resolved and Radiochemical Characterization of Strontium in Ivory by Combined LIBS and AMS Analysis**Speaker**

Alena Zavadilová

17:42-17:45

From Surfaces to Transport: In Situ Insights into f-Element Retention under Close to Nature Conditions**Speaker**

Andrea Kozlowski

17:45-17:48

Distribution of ^{137}Cs in the Tropical Pacific: Impact of Climate Variability on the North Equatorial Current (NEC)**Speaker**

Eun-Ran Baek

17:48-17:51

Kinetics of cobalt and europium adsorption on nanoplastic particles in natural waters**Speaker**

Dr Galina Lujaniene

17:51-17:54

Determination of isotope-specific soil-plant transfer factors for ^{226}Ra and ^{228}Ra in German crops**Speaker**

Dr Sergiy Dubchak

17:54-17:57

Uranium concentrations in groundwater on a uraniferous region: Case of Santa Quitéria, Ceará State, Brazil**Speaker**

Prof. José Marcus Godoy

17:57-18:00

Study of radiocesium removal from aqueous environment using high-charge swelling clays**Speaker**

Prof. Katarzyna Szarłowicz

18:00-18:03

A study on the analysis of ^{14}C activity in biological samples in Taiwan**Speaker**

Liang-Yu Tao

18:03-18:06

High-Resolution Environmental Radiation Baseline for Nuclear Emergency Preparedness in Hanoi (Vietnam)**Speaker**

Tuan HOANG

18:06-18:09

Radiological Characterization and Indoor Health Risk Assessment of Fly Ash-Based Building Materials of Some Power Plants in Vietnam**Speaker**

Tuan HOANG

18:09-18:12

Neutron activation analysis for assessing potential use of recycled construction and demolition wastes as agricultural remineralizers**Speaker**

Mr Luiz Antonio Gonçalves de Azevedo

18:12-18:15

Radioactive Sleep Masks**Speaker**

Dr Nick Evans

18:15-18:18

Anthropogenic and natural radionuclides in tissues of the Wilson's Storm Petrel (*Oceanites oceanicus*) breeding on King George Island (Maritime Antarctica)

Speaker

Mr Mikołaj Wielgat

18:18–18:20

Radioactivity and radon exhalation in bedrocks and soils used in traditional architecture in Korea**Speaker**

Sang-Han Lee

18:20–18:22

Optimizing phytoremediation efficiency of soils from German nuclear facilities**Speaker**

Ninja Braukmüller

18:22–18:24

Radiostrontium Analysis using Barium Silicate-Based Sr sorbent I: Sorption Characteristics for Application in Seawater**Speaker**

Dr Haruka Minowa

18:24–18:26

Determination of ^{129}I in Natural Samples from the Czech Republic Using AMS**Speaker**

Vít Mareš

18:26–18:28

Sorption of Cs(I) on Czech bentonite BCV_2017 under synthetic groundwater conditions**Speaker**

Erik Marenčák

18:28–18:30

Determination of ^{236}U in aqueous and other environmental samples from the area of the Czech Republic**Speaker**

Tomáš Prášek

18:30

Friday 15 May

10:30

Environmental Radioactivity: RER 4

Session | Location: Marble Hall | Conveners: Galina Lujaniene, Rainer Kadan

10:30-10:48

Radionuclides transport with groundwater in Chernobyl exclusion zone: geochemical modelling coupled to sensitivity analysis

Speaker

Inna Iarmosh

10:48-11:06

Spatiotemporal distributions and mass budgets of artificial radionuclides (Cs-137 and Pu-239,240) in the seas surrounding Korea

Speaker

Jaeun Lee

11:06-11:26

Assessment of the actinide isotopic fingerprint and fractionation in soil samples from a nuclear research site

Speaker

Sebastian Fichter

11:26-12:00

Danube monitoring of ^{137}Cs , $^{239}\text{Pu}/^{240}\text{Pu}$, and ^{90}Sr in the years 2017-2024

Speaker

Krystle Elbers

12:00