

Session Program

10-15 May 2026



RadChem 2026

Separation & Speciation

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

Monday 11 May

15:30

Separation & Speciation: SEP 1

Session | Location: Red Hall | Conveners: Jiří Janda, Andreas Geist

15:30-16:00

Extraction chromatographic separation of all actinides using single or stacked columns

Speaker

Nora Vajda

16:00-16:20

Speciation of Polonium in Aqueous Solutions: First insights of X-ray Absorption Spectroscopy

Speaker

Paul Dutheil

16:20-16:40

Optimization of ^{93}Mo radiochemical method for radioactive waste characterization: Improved Analytical Performance and Understanding on Separation Mechanisms

Speaker

Matic Dokl

16:40-17:00

Chromatographic separation of ^{107}Pd for characterization of radioactive waste

Speaker

Marko Štok

17:00

17:15

Separation & Speciation: Poster session

Session | Location: Gallery

17:15-17:18

Recovery Correction and Quantitative Reliability Assessment of ^{99}Tc Radiochemical Analysis Using Rhenium as a Surrogate Tracer and TEVA Resin Separation

Speaker

BOGIL KIM

17:18-17:21

A study on removal of Cs from simulated seawater by ammonium phosphomolybdate (AMP) and natural zeolite alginates

Speakers

Dr CHUAN-PIN LEE, Mr Yu-Hung Wang, Ms Liang-Yu Tao

17:21-17:24

Ti-based core-shell shaping for Ac-225/Bi-213 separation

Speaker

Thomas Staes

17:24–17:27

Development of radiation-stable and selective sorbent materials for direct ^{213}Bi generators**Speaker**

Jasper Mampaey

17:27–17:30

Efficient removal of perrhenate (ReO_4^-) as a non-radioactive surrogate for pertechnetate (TcO_4^-) from high-chloride and nitrate media by bis-guanidinium salts**Speaker**

Mr Lapislazuli Chekrain Valappil

17:30–17:33

Automation of AMP Pre-treatment for 60 L Seawater Cs-137 Analysis: Comparative Evaluation of Recovery Yield and Reduction of Hands-on Time**Speaker**

BOGIL KIM

17:33–17:36

Effect of sulfation and complexation on the sorption of La, Eu and Lu on tetravalent metal oxides**Speaker**

Topi Suominen

17:36–17:39

Rapid chemical separation of niobium for ^{94}Nb activity measurement in radioactive wastes**Speakers**

Dr Gyuhyeon Kim, Dr Kwang-Soon Choi

17:39–17:42

Conceptual design of a tritium removal system to improve tritium removal efficiency and increase processing capacity at room temperature**Speaker**

Seung-il Kim

17:42–17:45

CHALMEX Solvent Extraction for Spent Fuel Recycling: Performance, Scale-Up and Safety Considerations**Speaker**

Letizia Di Matteo

17:45–17:48

Comparison of the effectiveness of various extraction agents for separating europium into ionic liquids**Speaker**

Daria Matějková

17:48–17:51

ELECTROCHEMICAL BEHAVIOUR OF SELECTED METALS IN IONIC LIQUIDS FOR ELECTRODEPOSITION APPLICATIONS

Speaker

Michal Fícel

17:51-17:54

Static Testing Varying Ratio of Iodine or Iodomethane with Silver Zeolite - Capacity and Morphology**Speaker**

Rachael Roenfeldt

17:54-17:57

Separation of Zr in complex Ca rich matrices in nuclear decommissioning**Speaker**

Karel Burian

17:57-18:00

Selective dissolution and Separation of Lanthanides from Simulated Spent Fuel Using Betaine-Lactic Acid Deep Eutectic Solvent**Speaker**

Fangli Fan

18:00-18:03

Removal of Iron and Aluminium from Reactor Storage Pool Water Using Polymer Membranes**Speaker**

Kryštof Konečný

18:03-18:06

Separation and Recovery of the Platinum Group Metals Pd, Ru and Rh by adsorption on hexacyanoferrates structures for spent nuclear fuel reprocessing**Speaker**

Dr Iga Zuba

18:06-18:09

Remarkable Separation of Trace Amount Plutonium Using a Hy-drophilic Multiamide Ligand: Synthesis, Extraction, Spectroscopic, Crystal Structure and Density Functional Theory Studies**Speaker**

Tiansheng He

18:09-18:12

TK300 - A new calixarene-based resin for the separation of Cs**Speaker**

Illarion Dovhyi

18:12-18:15

New developments in Triskem: Preparation of extraction chromatographic separation materials based on new non-resin supports**Speaker**

Dr Aude Bombard

18:15-18:18

Sulfur-containing extraction systems for Rh, Ru and Pd in nitrate media relevant to spent nuclear fuel reprocessing

18:30

Speaker
Ondřej Holas

Tuesday 12 May

08:30

Separation & Speciation: SEP2

Session | Location: Red Hall | Conveners: Kenneth Czerwinski, Nora Vajda

08:30–09:00

The Role of Group Actinide Separation Process (GrASP) for a Sustainable Fuel Cycle

Speaker

Quinn Summerfield

09:00–09:20

Pyrochemical Group Separation of Lanthanides from Spent Nuclear Fuel Powder

Speaker

Mu Lin

09:20–09:40

N,N-Dibutyl Octanamide (DBOA)-Based Solvent Systems for Actinide Co-Extraction: A TBP Alternative for the CHALMEX Process

Speaker

Esraa Darwish

09:40–10:00

Novel Highly Selective Bistriazolyl-Phenanthroline and Phenanthroline-Dicarboxamide Ligands for i-SANEX Separations

Speaker

Pavle Mocijac

10:00

15:30

Separation & Speciation: SEP 3

Session | Location: Marble Hall | Conveners: Pavle Mocijac, Jan John

15:30–15:48

Water-Soluble Phenanthroline Masking Agent for Selective Separation of Am(III) and Ln(III) by Competitive Extraction

Speaker

Dr Ze-Yi Yan

15:48–16:06

EBTzPhen: a new CHON-compliant ligand for the selective separation of Am(III) from Cm(III) and light lanthanides in the AmSel process

Speaker

Giulia De Amicis

16:06–16:24

Anodic Electrodeposition for the Separation of Radionuclides of Transition Metals

Speaker

Sebastian Siegrist

16:24

Wednesday 13 May

08:30

Separation & Speciation: SEP 4

Session | Location: Marble Hall | Conveners: Duoqiang Pan, Paul Dutheil

08:30–08:52

Controlled Synthesis of Phosphonic Acid-Based Polymers and Their Adsorption Performance for Uranium(VI) in Strongly Acidic Environments

Speaker

Zhineng Wu

08:52–09:14

Study on preparation of boron nitride-based adsorbents and their adsorption performance for uranium and iodine

Speaker

Peng Zhang

09:14–09:36

Study on the Mechanism of Highly Selective Separation of Th(IV)/U(VI) Using COFs Designed for Precise Coordination Pockets

Speaker

zengyuan li

09:36–09:58

Integrated Spectro-Electrochemical Study of Technetium Redox Reactions and Ligand-Dependent Speciation in Aqueous Media

Speaker

Mario Löw

10:00

Thursday 14 May

13:30

Separation & Speciation: SEP 5

Session | Location: Marble Hall | Conveners: Mojmir Němec, Alex Tarancon Sanz

13:30-13:48 **Inorganic Resin Materials for the Separation of Ra-223 and Ac-225**

Speaker

Esther Spruit

13:48-14:06 **Ti-based core-shell shaping for Ac-225/Bi-213 separation**

Speaker

Thomas Staes

14:06-14:24

The development of a separation method for ^{111}Ag from neutron-irradiated Pd targets using dimethylglyoxime

Speaker

Filippos Karantoumanis

14:24-14:42

Scrubbing of radium from a loaded organic phase in milliflow reactors: detection challenges and performance optimization for medical radioisotope purification by solvent extraction

Speaker

Mr Samuele Servici

14:42-15:00

Extraction of radon from spring water into vegetable oils: Production of highly active preparations for medicinal purposes

Speaker

Viktor Goliáš

15:00

Friday 15 May

10:30

Separation & Speciation: SEP 6

Session | Location: Red Hall | Conveners: Sang-Han Lee, Viktor Goliáš

10:30-10:48

Spectroscopic Insights into Cm(III) Coordination with Unsymmetrically Substituted Diglycolamides

Speaker

Thomas Sittel

10:48-11:06

Innovative and sustainable TODGA-based solvents: redesigning the organic phase for SNF recycling

Speaker

Massimiliano Federico Silvio Tentorio

11:06-11:24

Assessment of TODGA degraded solvent in the AmSel process

Speaker

Iván Sánchez-García

11:24-11:42

Ab initio study of thermodynamic properties of ruthenium-nitrosyl system

Speaker

LORIS GELIN

11:42-12:00

Volatilization of Ru to RuO₄ and liquid-liquid extraction methods for its recovery from spent nuclear fuel

Speaker

Michael Seidel

12:00