



# RadChem 2022

## Monday, 16 May 2022

### Environmental Radioactivity: RER 1 - Marble Hall (15:30 - 17:00)

-Conveners: Michal Fejgl; Gabriele Wallner

time	[id] title	presenter
15:30	[1052] Retrospective determination of $^{236}\text{U}/^{238}\text{U}$ and $^{240}\text{Pu}/^{239}\text{Pu}$ atom ratios in aerosols and lung ashes from Vienna, Austria	WALLNER, Gabriele
16:00	[946] The Determination of Radiostrontium, Cs-Isotopes and Pu-Isotopes in Tyrolean Foodstuff and Environmental Samples	Mr KADAN, Rainer
16:20	[881] Air radiological monitoring in Northern Algeria: spatial distributions, meteorological influence and air masses' origin	Dr TAIEB ERRAHMANI, Djamel
16:40	[1009] The radiological profile of the north and the central Aegean Sea for $^{137}\text{Cs}$ , the water masses carriers, and their spread	LEIVADAROS, Petros

# Tuesday, 17 May 2022

## Environmental Radioactivity: RER 2 - Marble Hall (13:30 - 15:00)

-Conveners: Alena Zavadilová; Rainer Kadan

time	[id] title	presenter
13:30	[1027] Sources and the distribution of <sup>129</sup> I in soils from northeast China	WANG, Yanyun
14:00	[914] Multi-technique study of the complexation of Np(V)/Pa(V) with mellitate	LUO, Meng
14:20	[910] Uptake of Np(V) by zirconia: a combined batch, spectroscopic, and surface complexation modeling study	JESSAT, Isabelle
14:40	[886] Self-prepared standardized natural uranium isotopes solution and its use for the sorption experiments - practical approach	SOBCZYK, Maciej

## Environmental Radioactivity: RER Poster - Gallery (17:15 - 18:45)

time	[id] title	presenter
17:15	[896] Multi-method investigation of europium(III) complexation with the decorporation agent HEDP over a wide pH range	Dr HELLER, Anne
17:21	[902] Speciation and transfer of radionuclides in the human organism especially taking into account decorporation agents (RADEKOR) – a joint project	Dr BARKLEIT, Astrid
17:27	[923] Efficient photoreduction strategy for uranium immobilization based on graphite carbon nitride heterojunction nanocomposites	Dr LI, shuyang
17:33	[954] The interaction of illite colloid and Eu(III) under environmental conditions: Role of charge heterogeneity	WEI, xiaoyan
17:39	[973] Determination of uranium in calcareous rocks/minerals after separation by NTA-mediated sample dissolution and cation-exchange	Prof. PASHALIDIS, Ioannis
17:45	[1037] Uranium desorption from microplastic surfaces	IOANNIDIS, Ioannis
17:51	[1042] A mechanistic model for colloid and radionuclide co-transport in saturated porous systems: based on a two-site adsorption block mechanism	Mr TAN, Qi
17:57	[1069] Radiocarbon study of charcoals of Romanseque passage at Prague Castle	PACHNEROVÁ BRABCOVÁ, Kateřina
18:03	[1082] Natural bitumen hosted uranium mineralization, stability of the radiogenic system and mobility of selected elements in surface conditions.	Mr STRUNGA, Vladimír SIHELSKÁ, Kristína
18:09	[957] Characterization of radium-containing compounds in the human digestive tract for decorporation	Mr SHAMOUN, Ahmadabdurahman
18:15	[1067] Highly sensitive method for determination of <sup>90</sup> Sr in large volume groundwater samples using pixel detectors	KUJAN, Jan

# Wednesday, 18 May 2022

## Environmental Radioactivity: RER 3 - Marble Hall (08:30 - 10:00)

-Conveners: Tomáš Bouda; Marko Štok

time	[id] title	presenter
08:30	[924] Room-temperature Rn-222 adsorption using silver exchanged zeolites	HEINITZ, Stephan
08:48	[1006] Uranium speciation in an alkaline environment using TRLFS method	Dr ZAVADILOVÁ, Alena Dr DRTINOVÁ, Barbora
09:06	[1016] Determination of Natural Radionuclides in Groundwater Samples in Austria – Analysis of Seasonal Variations and Correlations with Chemical Parameters	Dr LANDSTETTER, Claudia
09:24	[1041] EVALUATION OF THE DEPENDENCE OF THE ACTIVITY CONCENTRATIONS RATIOS $^{234}\text{U}/^{238}\text{U}$ AND $^{235}\text{U}/^{238}\text{U}$ IN WATERS ON THE $^{238}\text{U}$ ACTIVITY CONCENTRATION	BOUDA, Tomáš
09:42	[887] Assessing long-term microbial impact on mineralogical trapping of uranium from deep groundwater at Äspö Hard Rock Laboratory, Sweden	Dr PIDCHENKO, Ivan

# Thursday, 19 May 2022

## Environmental Radioactivity: RER 4 - Marble Hall (10:30 - 12:00)

-Conveners: Ivan Kontul'; Claudia Landstetter

time	[id] title	presenter
10:30	[1020] Radiocarbon as a tracer for climate change studies	Dr KONTUL', Ivan
11:00	[951] Methods for the determination of biomass content in solid recovered fuels	GÖTZ, Daniel
11:20	[925] Definition and optimization of a procedure for obtaining crosslinked plastic scintillation microspheres	Mr COMA GARCIA, Arnau
11:40	[931] GROSS-ALPHA PARAMETER DETERMINATION WITH A METHANDIPHOSPHONIC ACID BASED PLASTIC SCINTILLATION RESIN	GIMENEZ GUERRA, Isaac

# Friday, 20 May 2022

## Environmental Radioactivity: RER 5 - Marble Hall (10:30 - 12:00)

-Conveners: Michal Fejgl; Astrid Barkleit

time	[id] title	presenter
10:30	[947] Determination of radiocarbon activity in mixed diet via indirect measurements	FEJGL, Michal
10:48	[929] Spectroscopic investigation of the speciation of uranium(VI) in the biofluids of the human digestive system	Dr BARKLEIT, Astrid
11:06	[935] Impact of Eu(III) and U(VI) as well as HEDP and DTPA on human and rat kidney cells in vitro	Mr SENWITZ, Christian
11:24	[926] Investigating Po-210 and Pb-210 uptake from coal ash and slag by earthworm <i>Eisenia fetida</i>	ŠTOK, Marko
11:42	[948] Rhizosphere interactions in radionuclide speciation, transfer and plant-uptake – Impacts on spent nuclear fuel disposal and mining areas	Dr LUSA, Merja