

Poster Programme of RANC 2023

Last modified: 2023-04-19

Monday, 8 May

Poster-1 17:00-17:45

FOR A 213	Oleksandr	Zhukov	^{90}Sr source age dating by LSC and ICP-MS analysis
B 182	Zsolt	Varga	Age dating measurements by laser ablation multi-collector ICP-MS in uranium materials
C 125	Csaba	Tóbi	Applicability of Atomic Force Microscopy in Nuclear Forensic Examination
D 094	Noam	Elgad	Star Segmentation and Classification Using Deep Learning in Nuclear Forensics FTA
E 202	Ranhee	Park	Study on Uranium Age-dating using $^{230}\text{Th}/^{234}\text{U}$ Radio-chronometer with the upgraded Chemical Separation Method
CMX F 247	Robert	Steiner	CMX-7: A Los Alamos National Laboratory Perspective
G 233	Tara	Kell	Use of Laser Ablation Inductively Coupled Plasma Mass Spectrometry in the 7 th Collaborative Materials Exercise
H 271	Amélie	Hubert	Advantages and limitations of four mass spectrometry techniques for uranium isotopic measurement. Case of the 7 th collaborative material exercise of the International Technical Working Group
I 054	Ivan	Elantsev	On the determination of uranium isotopic composition of nuclear forensic samples using Secondary Ion Mass Spectrometry
J 156	Samuel T. J.	Cross	An overview of non-destructive analysis of the Collaborative Materials Exchange exercise within the 24 hour reporting window
ACT K 160	Shauni N.	Williams	Current Capabilities at LANL for Measuring Interstitial Elements, (C, O, N & H) in Plutonium Materials
L 061	Nicole A.	DiBlasi	Development of TEVA resin extraction chromatography separation for Np determination in Pu materials using gamma spectrometry
M 022	Ernst	Artes	The influence of water and carbon dioxide content in solvents on molecular-plating produced terbium thin films

Poster-2 17:45-18:30

PHA A 260	Xiuyun	Chai	Development of a Separation Method for the Medical Radionuclide ^{47}Sc from Bulk Amounts of Ti
ECO B 195	Gabriele	Wallner	Influence of Ba^{2+} concentration on Ra and ^{210}Pb extraction from aqueous samples using EMPORE® radium RAD disk
C 170	Petros	Leivadarios	XRF elemental analysis and $^{236}\text{U}/^{238}\text{U}$ ratios of samples from the Almyros' river outflow in Crete
D 085	Ioannis	Ioannidis	Temperature effect on U-232 and Am-241 absorption by PN6 in environmental waters
E 051	Ana	Noguera	First attempts to assess the radiological risk due to the presence of natural radionuclides in construction and building materials used in Uruguay
F 007	Małgorzata	Dymecka	Low-level tritium measurements in freshwater and seawater samples
G 282	Maciej	Sobczyk	Investigation on U sorption by synthetic zeolites using XPS and HERFD-XANES spectroscopies
NAA H 256	Jan	Kučera	Modernized control of a pneumatic facility for short-time NAA at LVR-15 reactor in Řež, Czech Republic
I 242	Jiří	Mizera	Oxygen determination in the Ti certified reference material ERM EB090b by instrumental photon activation analysis
J 232	Alena	Krechlerová	Availability of Neutron Activation Facilities to Foreign Users at Research Center Řež, Czech Republic
K 228	Huaiyu Heather	Chen-Mayer	INAA of concrete
L 208	Gwangmin	Sun	Self Shielding Effect in a Strong Absorber of Gd in Neutron Activation Analysis
M 201	Amares	Chatt	Micelle-mediated extraction for simultaneous preconcentration of cadmium, cobalt, copper, manganese, nickel, and zinc with 1-(2-Pyridylazo)-2-naphthol and their determination by neutron activation analysis

Tuesday, 9 May

Poster-3 17:00-17:45

NAA A 165	Georg	Steinhauser	Characterization of silicone wristbands as passive underwater samplers for radionuclides
B 129	Katalin	Gméling	Qualifying the raw materials of additive manufacturing for use in Neutron Activation Analysis
C 014	Yonggang	Yao	Perspective and Progress of Neutron activation analysis at CARR
PGA D 176	Massimo	Rogante	Applications of PGAA to investigate Cultural Heritage Items from the Marche Region, Italy
E 082	Tariq A.	Al-Abdullah	Developing a PGNA Setup for Heavy Metal Detection in Solid Samples
SEP F 267	Susanta	Lahiri	Separation of long-lived ^{108m}Ag from ^{152}Eu and ^{60}Co using environmentally benign PEG based ABS
G 216	Daniel A.	Stubbs	Hafnium separation for high-precision isotopic abundance analysis
H 183	Jakub	Sochor	Electrochemical adjustment of the oxidation state of short-lived nihonium homologues
I 169	Alice	Bulíková	Microfluidic liquid-liquid extraction of Mo and W in sub-minute contact times
J 095	Laura N.	Lambert	CERN-MEDICIS: an offline mass separation facility dedicated to nuclear medicine
K 155	Pavel	Bartl	Fast on-line KCl-aerosol dissolution for liquid-phase chemistry with homologues of superheavy elements
L 148	Miroslava	Semelová	Enhancing radionuclide extraction by using ionic liquids

Poster-4 17:45-18:30

SEP A 280	Lóránt	Szathmáry	Development of processes for the solidification of high level radioactive wastes after NPP severe accident and evaluation of their disposal in radioactive waste repository
B 278	Rainer	Kadan	The determination of a nuclide vector in concrete and soil samples: Verification of a method
C 109	Da-Young	Gam	Method validation of radiochemical analysis for the bioshield concrete samples from decommissioning process of research reactor
D 108	Katerina	Horova	Separation of molybdenum-93 in waste from the decommissioning of nuclear power plants and determination of separation efficiency by cuvette tests
E 081	Jan	Houzar	Liquid-liquid extraction of strontium from acidic solutions into ionic liquids using crown ethers
F 283	Straka	Martin	Uranium Recovery From U/Lns Ionic Liquids Solutions
G 057	Jan	Gut	Use of inorganic sorbents in the treatment of liquid radioactive waste
H 041	Junqiang	Yang	Ultrafast and selective separation of ^{99m}Tc from molybdenum matrix using DBDGA deliberately tailored macrocyclic crown-ethers
I 006	Grażyna	Kaczyńska	The study of distribution coefficient of polonium between toluene or cyclohexane solutions of tri-octylphosphine oxide (TOPO) and tri-butylphosphate (TBP) and selected inorganic acids
J 279	Laura N.	Lambert	Production and mass-separation of 44-47Sc radionuclides at the CERN-MEDICIS facility

Thursday, 11 May

Poster-5 17:00-17:45

FUE	A 185	Kuan-Ying Hsieh	Study on advection–dispersion behavior for simulation of HTO and Tc-99 transport in crushed granite of column experiments
B	038	Byung Gi Park	A Study of Reduction Reactions of Sm(II) and Eu(II) Ions on Inert W Electrode in Molten LiCl-KCl Eutectic with Bi(III) Ion
LON	C 186	Feng-chih Chang	Determination of ¹³⁵ Cs activities in Spiked Radioactive Solids by ICP-MS and NAA
D	127	Gousheng Yang	Measurement of actinides and ⁹⁰ Sr in faecal and urinary samples for PROCORAD 2022
E	021	Marina Faure	Development of a method to quantify Pd-107 in radioactive wastes
F	277	Jia Tianyi	Sequential Separation of Iodine Species in Nitric Acid Media for Speciation Analysis of I-129 in a PUREX Process of Spent Nuclear Fuel Reprocessing
MAS	G 263	Jakub Kaizer	Accelerator studies of tree rings in proximity of aluminium processing factory in Ladomerská Vieska (Slovakia)
H	231	Pavel Povinec	Sources of metals and plutonium isotopes in sediments of the south-eastern Baltic Sea
I	210	Jung Youn Choi	Comparison and optimization of the TIMS analysis method for declared information verification of Special Nuclear Material
J	152	Grisel Mendez Garcia	Variations in beam currents using different carrier metals in small rain samples for ¹⁰ Be measurements by AMS
K	113	Filip Babčický	Mass spectra analysis of ions produced from Ca and Ni fluoride target materials by caesium sputtering
L	080	Janis Wolf	Developing a chemical sample preparation procedure for accelerator mass spectrometry of ²³¹ Pa in environmental samples
M	035	Hyun Ju Kim	Optimization of measurement protocol for U particles in environmental samples by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry (LA-ICP-MS)

Poster-6 17:45-18:30

PRO	A 206	Maryna Hryhorenko	Alpha-conversion electron coincidence in alpha spectra
B	132	Jan Kujan	Low-level Sr-90 measurements within the new concept of radiation monitoring of surface waters in the Czech Republic
C	089	Katarzyna Szarłowicz	Case study: background fluctuations of gamma detectors in laboratories with a modern ventilation system
EDU	D 177	Alžběta Horynová	Optimizing decontamination procedures for educational applications
E	138	Eros Mossini	A radiochemistry laboratory exercise: estimation of Ba-137m half-life by its internal conversion electron
PRO	G 272	Mohamend F. Nawar	Mesoporous Nanoceria Column-Based Separation of High-Purity ^{99m} TcO ₄ ⁻ from Low Specific Activity ^{99m} Mo for Radiopharmaceutical Applications
ACT	F 119	Makoto Matsueda	Simultaneous Determination of Actinide-isotopes by Online Solid-Phase Extraction–Inductively Coupled Plasma–Mass Spectrometry