

Poster Programme of RANC 2023

Last modified: 2023-04-17

Monday, 8 May, 2023

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 Th/ ²³⁴ 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
K	046	Florin Albota	Age and Elemental Impurities Determination in Nuclear Materials by Single Quadrupole ICP-MS
ACT	L 160	Shauni N. Williams	Current Capabilities at LANL for Measuring Interstitial Elements, (C, O, N & H) in Plutonium Materials
M	061	Nicole A. DiBlasi	Development of TEVA resin extraction chromatography separation for Np determination in Pu materials using gamma spectrometry
N	119	Makoto Matsueda	Simultaneous Determination of Actinide-isotopes by Online Solid-Phase Extraction-Inductively Coupled Plasma-Mass Spectrometry
O	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 ^{236/238} 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	013	Russel Rolphe	Environmental and human health risks assessment of potentially toxic elements content in soils of a prospective phosphate mining area in Hinda district, Republic of Congo
G	007	Malgorzata Dymecka	Low-level tritium measurements in freshwater and seawater samples
H	282	Maciej Sobczyk	Investigation on U sorption by synthetic zeolites using XPS and HERFD-XANES spectroscopies
NAA	I 256	Jan Kučera	Modernized control of a pneumatic facility for short-time NAA at LVR-15 reactor in Řež, Czech Republic
J	242	Jiří Mizera	Oxygen determination in the Ti certified reference material ERM EB090b by instrumental photon activation analysis
K	232	Alena Krechlerová	Availability of Neutron Activation Facilities to Foreign Users at Research Center Řež, Czech Republic
L	228	Huaiyu Heather Chen-Mayer	INAA of concrete
M	208	Gwangmin Sun	Self Shielding Effect in a Strong Absorber of Gd in Neutron Activation Analysis
N	201	Amars 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, 2023

Poster-3		17:00-17:45	
NAA	A 165	Georg Steinhäuser	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 PGNAA Setup for Heavy Metal Detection in Solid Samples
SEP	F 267	Susanta Lahiri	Separation of long-lived ^{108m} Ag from ¹⁵² Tc 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	Grazyna 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- ⁴⁷ Sc radionuclides at the CERN-MEDICIS facility

Thursday, 11 May, 2023

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	F 272	Mohamend F.	Nawar	Mesoporous Nanoceria Column-Based Separation of High-Purity ^{99m} TcO ₄ ⁻ from Low Specific Activity ^{99m} Mo for Radiopharmaceutical Applications