

## Poster Programme of RANC 2023

Last modified: 2 March 2023

<b>Poster-1</b> 17:00-17:45			
<b>FOR</b>	<b>A 213</b>	Oleksandr Zhukov	90Sr Source Age Dating By Lsc And Icp-Ms Analysis
	<b>B 182</b>	Zsolt Varga	Age Dating Measurements By Laser Ablation Multi-Collector Icp-Ms In Uranium Materials
	<b>C 125</b>	Csaba Tóbi	Applicability Of Atomic Force Microscopy In Nuclear Forensic Examination
	<b>D 121</b>	Tebogo Gilbert Kupi	Lead Isotopic Ratios Analysis For Uranium Ore And U3O8 For Nuclear Forensics Purposes
	<b>E 202</b>	Ranhee Park	Study On Uranium Age-Dating Using 230Th/234U Radiochronometer With The Upgraded Chemical Separation Method
<b>CMX</b>	<b>F 247</b>	Robert Steiner	Cmx-7: A Los Alamos National Laboratory Perspective
	<b>G 233</b>	Tara Kell	Use Of Laser Ablation Inductively Coupled Plasma Mass Spectrometry In The 7Th Collaborative Materials Exercise
	<b>H 181</b>	Anne-Laure Fauré	Advantages And Limitations Of Four Mass Spectrometry Techniques For Uranium Isotopic Measurement. Case Of The 7Th Collaborative Material Exercise Of The International Technical Working Group
	<b>I 054</b>	Ivan Elantsev	On The Determination Of Uranium Isotopic Composition Of Nuclear Forensic Samples Using Secondary Ion Mass Spectrometry
	<b>J 156</b>	Samuel T J Cross	An Overview Of Non-Destructive Analysis Of The Collaborative Materials Exchange Exercise Within The 24 Hour Reporting Window
	<b>K 046</b>	Florin Albota	Age And Elemental Impurities Determination In Nuclear Materials By Single Quadrupol Icp-Ms
<b>ACT</b>	<b>L 265</b>	Shan Xing	Simultaneous Determination Of Transuranium Radionuclides For Nuclear Forensics By Compact Accelerator Mass Spectrometry
	<b>M 160</b>	Shauni N Williams	Current Capabilities At Lanl For Measuring Interstitial Elements, (C, O, N & H) In Plutonium Materials
	<b>N 119</b>	Makoto Matsueda	Simultaneous Determination Of Actinide-Isotopes By Online Solid-Phase Extraction-Inductively Coupled Plasma-Mass Spectrometry
	<b>O 061</b>	Nicole A. DiBlasi	Development Of Teva Resin Extraction Chromatography Separation For Np Determination In Pu Materials Using Gamma Spectrometry
<b>Poster-2</b> 17:45-18:30			
<b>ACT</b>	<b>A 022</b>	Ernst Artes	The Influence Of Water And Carbon Dioxide Content In Solvents On Molecular-Plating Produced Terbium Thin Films
<b>PHA</b>	<b>B 260</b>	Xiuyun Chai	Development Of A Separation Method For The Medical Radionuclide 47Sc From Bulk Amounts Of Ti
<b>ECO</b>	<b>C 195</b>	Gabriele Wallner	Influence Of Ba Concentration On Ra And Pb-210 Extraction From Aqueous Samples Using Empore Radium Rad Disk
	<b>D 170</b>	Petros Leivadaros	Xrf Elemental Analysis And 236/238U Ratios Of Samples From The Almyros' River Outflow In Crete
	<b>E 085</b>	Ioannis Ioannidis	Temperature Effect On Radionuclides (U-232 And Am-241) Removal From Environmental Waters By Pn6
	<b>F 051</b>	Ana Noguera	First Attempts To Assess The Radiological Risk Due To The Presence Of Natural Radionuclides In Construction And Building Materials Used In Uruguay.
	<b>G 013</b>	Russel Rolphe Moubakou Diahou	Radioactivity Measurement And Human Health Risk Assessment In The Most Consumed Staple In The Republic Of Congo
	<b>H 007</b>	Malgorzata Dymicka	Low-Level Tritium Measurements In Freshwater And Seawater Samples
	<b>I 004</b>	Amina Mikayilova	Protection Of Equipments From The Corrosion And Salt Deposition In Geothermal Systems Of Azerbaijan
<b>NAA</b>	<b>J 256</b>	Jan Kučera	Modernized Control Of A Pneumatic Facility For Short-Time Naa At Lvr-15 Reactor In Rež, Czech Republic
	<b>K 242</b>	Jiří Mizera	Oxygen Determination In The Ti Certified Reference Material Erm Eb090B By Instrumental Photon Activation Analysis
	<b>L 232</b>	Alena Krechlerová	Availability Of Neutron Activation Facilities To Foreign Users At Research Center Rež, Czech Republic
	<b>M 228</b>	Huaiyu Heather Chen-Mayer	Inaa Of Concrete
	<b>N 208</b>	Gwangmin Sun	Chemical Composition Of Korean Geochemical Reference Materials By Inaa And Wd-Xrf
	<b>O 201</b>	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 Acti
<b>Poster-3</b> 17:00-17:45			
<b>NAA</b>	<b>A 165</b>	Georg Steinhauser	Characterization Of Silicone Wristbands As Passive Underwater Samplers For Radionuclides
	<b>B 129</b>	Katalin Gméling	Qualifying The Raw Materials Of Additive Manufacturing For Use In Neutron Activation Analysis
	<b>C 037</b>	Igor Yu Silachyov	Application Of Nuclear Physical Methods To Differentiate The Samples Of Medieval Ceramics From Shu-Talas Interfluvium In Southern Kazakhstan
	<b>D 014</b>	Yonggang Yao	Perspective And Progress Of Neutron Activation Analysis At Carr
<b>PGA</b>	<b>E 176</b>	Massimo Rogante	Applications Of Pgae To Investigate Cultural Heritage Items From The Marche Region, Italy
	<b>F 082</b>	Tariq A Al-Abdullah	Developing A Pgae Setup For Heavy Metal Detection In Solid Samples
	<b>G 178</b>	János Gábor Tarbay	Alloys Of West Hungarian Late Bronze Age Spearheads
	<b>H 033</b>	Jonathan Walg	Fast Neutron Measurement System Using Prompt Gamma Neutron Activation Converter: Monte Carlo Simulations
<b>SEP</b>	<b>I 267</b>	Susanta Lahiri	Separation Of Long-Lived 108Mag From 152Eu And 60Co Using Environmentally Benign Peg Based Abs
	<b>J 262</b>	Iga Zuba	Magnetic Sorbent Fe3O4@Mno2: Preparation, Characterization And Adsorption Study Of Ruthenium From Aqueous Solutions
	<b>K 216</b>	Daniel A Stubbs	Hafnium Separation For High-Precision Isotopic Abundance Analysis
	<b>L 183</b>	Jakub Sochor	Electrochemical Adjustment Of The Oxidation State Of Short-Lived Nihonium Homologues
	<b>M 169</b>	Alice Bulíková	Microfluidic Liquid-Liquid Extraction Of Mo And W In Sub-Minute Contact Times
<b>Poster-4</b> 17:45-18:30			
<b>SEP</b>	<b>A 145</b>	Ji-young Park	X
	<b>B 116</b>	Edgars Mamis	Production And Mass-Separation Of 44-47Sc Radionuclides At The Cern-Medicis Facility
	<b>C 109</b>	Da young Gam	Method Validation Of Radiochemical Analysis For The Bioshield Concrete Samples From Decommissioning Process Of Research Reactor
	<b>D 108</b>	Katerina Horova	Separation Of Molybdenum-93 In Waste From The Decommissioning Of Nuclear Power Plants And Determination Of Separation Efficiency By Cuvette Tests
	<b>E 095</b>	Laura N Lambert	Cern-Medicis: An Offline Mass Separation Facility Dedicated To Nuclear Medicine
	<b>F 081</b>	Jan Houzar	Liquid-Liquid Extraction Of Strontium From Acidic Solutions Into Ionic Liquids Using Crown Ethers
	<b>G 077</b>	Jiangang He	Improved Solid Phase Extraction Materials For Sr-90 And Cs-137
	<b>H 057</b>	Jan Gut	Use Of Inorganic Sorbents In The Treatment Of Liquid Radioactive Waste
	<b>I 041</b>	Junqiang Yang	Ultrafast And Selective Separation Of 99Mtc From Molybdenum Matrix Using Dbdga Deliberately Tailored Macrocyclic Crown-Ethers

<b>J 006</b>	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.
<b>K 268</b>	Junhua	Xu	Effect Of Different External Metals Of Hexacyanoferrate On Cesium Removal
<b>L 155</b>	Pavel	Bartl	Fast On-Line KCl-Aerosol Dissolution For Liquid-Phase Chemistry With Homologues Of Superheavy Elements
<b>M 148</b>	Miroslava	Semelová	Enhancing Radionuclide Extraction By Using Ionic Liquids

**Poster-5** 17:00-17:45

<b>FUE A 185</b>	Kuan-Ying	Hsieh	Study On Advection–Dispersion Behavior For Simulation Of Hto And Tc-99 Transport In Crushed Granite Of Column Experiments
<b>B 038</b>	Byung Gi	Park	A Study Of Reduction Reactions Of Sm(III) And Eu(III) Ions On Inert W Electrode In Molten LiCl-KCl Eutectic With Bi(III) Ion
<b>LON C 186</b>	Feng-chih	Chang	Determination Of <sup>135</sup> Cs Activities In Spiked Radioactive Solids By Icp-MS And Naa
<b>D 127</b>	Guosheng	Yang	Measurement Of Actinides And <sup>90</sup> Sr In Faecal And Urinary Samples For Procorad 2022
<b>E 021</b>	Marina	Faure	Development Of A Method To Quantify Pd-107 In Radioactive Wastes
<b>F 111</b>	Ines	Llopart	For The Determination Of <sup>41</sup> Ca In Concrete Samples: Comparison Of Different Counting Efficiency Calibration Methods For Liquid Scintillation Counting
<b>MAS G 263</b>	Jakub	Kaizer	Accelerator Studies Of Tree Rings In Proximity Of Aluminium Processing Factory In Ladomerská Vieska (Slovakia)
<b>H 231</b>	Pavel	Povinec	Sources Of Metals And Plutonium Isotopes In Sediments Of The South-Eastern Baltic Sea
<b>I 210</b>	Jung Youn	Choi	Comparison And Optimization Of The Tims Analysis Method For Declared Information Verification Of Special Nuclear Material
<b>J 152</b>	Grisel	Mendez Garcia	Variations In Beam Currents Using Different Carrier Metals In Small Rain Samples For <sup>10</sup> Be Measurements By AMS
<b>K 113</b>	Filip	Babčický	Mass Spectra Analysis Of Ions Produced From Ca And Ni Fluoride Target Materials By Caesium Sputtering
<b>L 080</b>	Janis	Wolf	Developing A Chemical Sample Preparation Procedure For Accelerator Mass Spectrometry Of <sup>231</sup> Pa In Environmental Samples
<b>M 035</b>	Hyun Ju	Kim	Optimization Of Measurement Protocol For U Particles In Environmental Samples By Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry (LA-ICP-MS)
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**Poster-6** 17:45-18:30

<b>PRO A 206</b>	Maryna	Hryhorenko	Alpha-Conversion Electron Coincidence In Alpha Spectra
<b>B 132</b>	Jan	Kujan	Low-Level Sr-90 Measurements Within The New Concept Of Radiation Monitoring Of Surface Waters In The Czech Republic
<b>C 089</b>	Katarzyna	Szarłowicz	Case Study: Background Fluctuations Of Gamma Detectors In Laboratories With A Modern Ventilation System
<b>D 087</b>	Catalin S.	Tuta	Laboratory Incinerator For Solid Tritium Waste
<b>E 043</b>	Mee	Jang	Response Function Evaluation Of The Beta Radiation For Semiconductor Detector Using Monte Carlo Simulation
<b>F 114</b>	Pablo	Serra Crespo	Radiation Resistant Chromium Metal-Organic Frameworks For The Production Of <sup>51</sup> Cr By The Recoil Effect
<b>EDU G 177</b>	Alžběta	Horynová	Optimizing Decontamination Procedures For Educational Applications
<b>H 138</b>	Eros	Mossini	A Radiochemistry Laboratory Exercise: Estimation Of Ba-137M Half-Life By Its Internal Conversion Electron