

POSTER SESSION A

Tuesday, 26 August 2008
13:00 – 15:00

Fundamental nuclear chemistry

- PA1 Packaged organic radioactive wastes forms for final disposal
abs278 E. Dumitru
- PA2 Chemical effects of nuclear transformation of Mn-56 in permanganate mixed crystal.
abs206 V. Gupt
- PA87 New Insights in the Complexation Mechanism of Cm³⁺ with Humic Substances
abs128 M. Freyer

Actinides

- PA3 Solubility of tri- and tetravalent metal oxides/hydroxides in alkaline CaCl₂-solutions:
Formation of ternary complexes Ca_x[M(OH)_n]^{z+} (M=Nd,Cm,Zr,Th)
abs101 M. Altmaier
- PA4 Study of Np(v) complexes with N-donor ligands using x-ray single crystal
diffractometry and IR/NIR spectroscopy
abs164 G. Andreev
- PA5 Multiphysics Analysis of a Molten-salt Electrolytic Process for Nuclear Waste
Treatment
abs254 Kwang-Rag Kim
- PA6 Neptunium(V) interaction with ferrates(VI)
abs228 Y.D. Perfiliev
- PA7 XPS study of electrochemically prepared uranium targets
abs118 T. Reich
- PA8 Synthesis and x-ray structural study of actinide (iv) complexes with P₂W₁₇O₆₁¹⁰⁻ ion
abs153 M. Sokolova

Transactinides

- PA9 Distribution of ruthenium and osmium tetroxide between CCl₄ and aqueous phase.
Model studies for chemistry of hassium.
abs57 A. Bilewicz
- PA10 Liquid-liquid solvent extraction of group 6 elements with alfa-benzoinoxime
abs279 Zhin Qin
- PA11 On the Adsorption Interaction of At-211, Pb-212, and Tl-200-202 with Metal Surfaces
abs72 A. Serov
- PA12 Rapid gas-solid thermochromatography in transactinoid studies
abs91 I. Zvara

Radioanalytical chemistry

- PA13 Composite ion exchanger with Titanium (IV) Vanadate and its application in radioactive waste
abs117 S. Ahmadi
- PA14 First experiments at the new PGAA facility at the research reactor FRM II
abs240 L. Canella
- PA15 Studied solid surface as by tritium probe
abs70 M. Chernysheva
- PA16 Method validation of a recommend procedure of Po-210 in water using DDTC solvent extraction and Sr extraction chromatography
abs86 C. Kim
- PA17 Characterization of Zr-93 at trace level in radioactive effluents and wastes
abs71 I. LASZAK
- PA18 Heavy metal absorption properties of silk powders using radiotracers
abs180 D. Mallenahally Siddalingappa
- PA19 Implementation of contemporary separation technique for determination of Sr-90 in soil based on Sr-Spec resin
abs48 N. Milusheva
- PA20 High mass lanthanide separations from mixed fission product samples
abs173 R. Payne
- PA21 Radiochemical separation of Yttrium from Strontium
abs55 A. Sattari
- PA22 Intakes of Radionuclides from Foods in Total Diet Study and Concentrations of Cs-137 in Imported Foods in Japan
abs184 H. Sugiyama
- PA23 An example of archaeometrical usage of prompt gamma activation analysis: chemical characterization of Early Bronze Age pottery from two archaeological
abs285 V. Szilágyi
- PA24 Study of interactions between hexavalent plutonium and environmental inorganic ligands by coupling capillary electrophoresis with ICP-MS (CE-ICPMS)
abs95 S. Topin
- PA25 Rapid method for the simultaneous determination of actinides by α -spectrometry
abs229 N. Vajda
- PA26 Production date determination of nuclear materials by inductively coupled plasma mass spectrometry
abs252 Z. Varga
- PA27 Coupling of CE with RIMS, a method for ultra trace speciation studies
abs56 T. Wunderlich
- PA28 A comparison between cold and thermal neutron prompt gamma activation analysis in determination of carbon, nitrogen, and phosphorus in cattail
abs202 L. Zhao

Radionuclide production

- PA29 Design of liquid I-127 target for producing I-125 radioisotope using computer simulation and 30Mev cyclotron
abs8 A. Ghorbanpour
- PA30 Radiochemical Separation and quality control of high specific activity Re-186g in no-carrier-added form from cyclotron irradiated W and W-186 targets
abs209 M. Bonardi
- PA31 Deuteron cyclotron production of high specific activity NCA Lu-117g for metabolic radiotherapy, as a competitive method to neutron activation
abs249 F. Groppi
- PA32 A new target system for production of Y-86and I-124on the cyclotron U-120M
abs195 O. Lebeda
- PA33 Study of Ga-68 production via Zn-68(p,n) Ga-68 reaction for positron emission tomography (PET)
abs54 M. Sadeghi
- PA34 Investigation of direct production of Ga-68 radioisotope at low energy multiparticle accelerator
abs220 F. Szelecsényi
- PA35 Experimental study of the production routes of therapeutic radioisotopes at accelerators
abs233 F. Tárkányi
- PA36 Irradiation facilities and NAA at the new Research Reactor FRM-II Munich
abs999 X. Li

Radiotracers in life sciences

- PA37 Preparation and Biodistribution of [Ga-67]-Insulin for SPECT purposes
abs3 J. Garousi
- PA38 Preparation and Biodistribution of [Ga-67]-radiolabeled-Rituximab in Normal rats
abs6 L. Mirsadeghi
- PA39 Complexes of Zr-89 with macrocyclic and acyclic ligands for preparation of PET
radiopharmaceuticals
abs37 M. Połosa
- PA40 Radiosynthesis of [F-18]-dimethyl 2-(fluoromethyl)-6-methyl-4-(2-nitrophenyl)-1,4-
dihydropyridine-3,5-dicarboxylate for L-type calcium channel imaging
abs7 H. Sadeghpour
- PA41 Preparation and Biological Evaluation of [Ga-67]DTPA-gonadorelin for SPECT
imaging
abs5 S. Shanehsazzadeh

Radionuclides in geo- and cosmochemistry

- PA42 Radon measurements in Romanian salt mines
abs109 C. Cosma
- PA43 Sorption of Tc(VII) and Tc(IV) to Minerals and Rocks in the UK
abs137 N.D.M. Evans
- PA44 Investigations on the sorption of phosphate ions on colloidal alumina:
abs244 C. Galindo
- PA45 Accumulation rates of major elements of hemipelagic sediments in the Gulf of Cádiz
(Spain): a decadal perspective of sedimentary dynamics
abs168 R. Guerra
- PA46 Acid-Base characters of attapulgite and the adsorption of Th(IV) on attapulgite:
effects of pH, HS and Temperatures
abs280 W. WU

Radiochemistry in nuclear energy production

- PA47 Corrosion-erosion tendencies on the primary side of the steam generators at Paks NPP
abs151 B. Baja
- PA48 Study on the defining properties of the molecular sieves waste forms
abs271 N. Deneanu
- PA49 Thermodynamic Properties in the Cu-Cl-O-H System
abs174 B. Ikeda
- PA50 Precipitation of Molybdenum and Zirconium as Influenced by Addition of $ZrMo_2O_7(OH)_2 \cdot H_2O$, CrO_3 , $KF \cdot 2H_2O$, and NH_4BF_4
abs89 I. Khonina
- PA51 Comparison of Radiolytic Degradation Behaviour of N,N-dihexyloctanamide with Tri-n-butyl phosphate and Tri-n-amyl phosphate
abs147 V. Manchanda
- PA52 Temperature effect on the kinetics of solvent extraction of Am(III) and Eu(III) ions with tetradentate ligands, derivatives of bis-triazinylbipyridine
abs154 J. Narbutt
- PA53 Determination of U(VI) and Some Organic Acid Ions in Aqueous Uranium Carbide Dissolution Samples by Capillary Zone Electrophoresis
abs82 V. Sladkov

Radioecology and environmental sciences

- PA54 Degradation resistance of epoxidized low molecular weight natural rubber blends to thermal, oxygen, ozone, water and some solvent.
abs222 A. Akinlabi
- PA55 Uptake of uranium from aqueous solutions by barley rootlets
abs103 V. Anagnostopoulos
- PA56 Radionuclides Distribution in Soil around a Phosphate Fertilizer Plant in Romania by Low Background Gamma-Ray Spectrometry
abs275 C. Badita
- PA57 The impact of tritium emissions from cernavoda npp on environment
abs207 E. Bobric
- PA58 Rapid Determination of Atmospheric Alpha Contamination by Frisch Grid Ionization Chamber
abs53 M. Bunata
- PA59 Radionuclide concentration and concentration factor for marine organisms in Korea
abs35 S. Choi
- PA60 I-127 and I-129 in the environment: Soils from Germany and Chile
abs187 A. Daraoui

- PA61 Development of a new atmospheric dispersion modeling software at Paks NPP
abs78 P. Dombovári
- PA62 NORM characterization. Nuclear techniques applied to non-nuclear industry
abs231 C. Dulama
- PA63 Sorption of uranium(VI) on ferrihydrite – Influence of atmospheric CO₂ on surface
complex formation investigated by ATR-FT-IR spectroscopy
abs163 H. Foerstendorf
- PA64 Behaviour of natural and antropogenic radionuclides in the atmosphere of Moscow
abs75 S. Gordeev
- PA65 Complexation of Curium(III) and Europium(III) with Urea and in Human Urine
abs131 A. Heller
- PA66 Fluorimetric analysis of natural uranium from soil and vegetation samples at Nuclear
Fuel Plant Pitesti
abs194 M. Ivana
- PA67 Assessment of crude oil sludge fly ash in an incineration plant by k0-INAA
abs66 K.S. Khoo
- PA68 Comprehensive Evaluation of the Environmental Effect of Radiologically Hazardous
Objects
abs63 T. Lashchenova
- PA69 Study of Cs-137 Sorption Behaviour in Baltic Sea and Curonian Lagoon by Analysis
of in situ Distribution and Laboratory Experiments
abs208 G. Lujaniene
- PA70 Radionuclide migration: Cs-137 behavior in loam and clay sedimentary rocks.
abs85 V. Martianov
- PA71 The Co-existence of Agricultural Land and Uranium Tailing Pile in the Region of
Příbram, the Czech Republic.
abs177 J. Mihalík
- PA72 An activity of radionuclides Cs-137 and K-40 in soil samples taken from Tatra
Mountains
abs234 R. Misiak
- PA73 Metal Binding Properties of Processed Wool
abs183 R. Naik
- PA74 Dose contributions due to Radon at Underground Workplaces
abs197 C. Németh
- PA75 Distributions of natural radionuclides and chemical speciation of U and Th in
Sediments of Itea Gulf (Gulf of Corinth), Greece
abs73 H. Papaefthymiou
- PA76 Cm(III) and Eu(III) Sorption onto Aluminum Oxides/Hydroxides
abs59 T. Rabung

- PA77 Influence of soil particle size on radon emanation and exhalation
abs217 S. Tokonami
- PA78 Studying of speciation and migration of Cs-137 and plutonium isotopes in the system
Ob River-estuary- adjunct part of Kara Sea
abs158 A. Travkina
- PA79 The influence of melanoidins on the sorption of Np(V) onto montmorillonite
abs276 V. Vicente Vilas
- PA80 Temporal variation of Pu-240/Pu-239 atom ratio in water columns of the Japan Sea
abs14 M. Yamada

Nuclear methods in material science and industrial applications

- PA81 Monte Carlo Modeling for Gamma Ray Buildup Factor in Muscle
abs210 F. Babapour
- PA82 The determination of absolute intensity of the 1001 KeV peak
abs102 R.Cs. Begy
- PA83 Chemical Effects of Neutron Irradiation in Thiogermanium Compounds
abs105 J. Facetti-Masulli
- PA84 A study on a process for recovery of uranium alone from spent nuclear fuel in a high
alkaline carbonate media
abs259 K. Kim
- PA85 Investigation of the working place atmosphere in a romanian fertilizer plant by neutron
activation analysis
abs282 A. Pantelica
- PA86 Estimating tumor/non-tumor uptake from radiolabeled monoclonal antibodies, based
on scintigraphic imaging to avoid killing the animal models
abs46 M. Salouti

POSTER SESSION B

Wednesday, 27 August 2008

13:00 – 15:00

Actinides

PB1 Sorption of actinides (Th, U, Np, Pu, Am) on opalinus clay in synthetic porewater
abs162 S. Amayri

PB2 Structural and Spectroscopic Study of Np(V) Complexes with Imidazole
abs167 G. Andreev

PB3 Curium(III) Speciation in Aqueous Solutions of Bacterial Siderophores
Abs62 H. Moll

PB4 Improvement of the retention capacity of ETS-10 towards uranyl ions by porosity
modification
abs4 K. Popa

PB5 Synthesis and X-ray structural study of actinide (iv) complexes with $P_2W_{17}O_{61}^{10-}$ ion
abs159 M. Sokolova

Transactinides

Experiments with the descendants of 115-288 revisited from the spectroscopic point of
view
PB6
abs122 R. Dressler

PB7 The quest for superheavy elements at GSI
abs38 M. Schaedel

PB8 Cation-Exchange Behavior of Rf in HNO_3/HF Mixed Solution
abs114 I.Yasuo

Radioanalytical chemistry

- PB9 Determination of reference values for U-234, U-238 and Ra-226 in bottled drinking water by alpha spectrometry
abs43 L. Benedik
- PB10 Determination of complexation constants between inorganic ligands and At(I) and At(III) species present at ultra-trace concentrations
abs191 J. Champion
- PB11 INAA investigation of major and trace elements distribution in unconsolidated sediments collected from Black Sea anoxic zone
abs263 O. Dului
- PB12 Aqueous Biphasic Extraction: A Tool to Generate Radiogenic Gold-Palladium Nanoparticles
abs29 S. Lahiri
- PB13 Radiolytical stability of alkylimidazolium-based Room-Temperature Ionic Liquids for nuclear applications
abs100 G. Le Rouzo
- PB14 Uranium determination by delayed fission neutron and k_0 -standardization methods
abs258 M. Menezes
- PB15 Absorption Spectroscopy of Europium with a Liquid Waveguide Capillary Cell
abs246 M. Müller
- PB16 Determination of low energy gamma (I-129) and beta (Sm-151, Zr-93) emitting radionuclides in radwaste from NPP A1 Jaslovske Bohunice.
abs193 B. Remenec
- PB17 Application of laser ablation ICP-MS for nuclear forensic investigation
abs242 Z. Stefanka
- PB18 The new PGAI-NT setup and the first elemental imaging experiments at the Budapest Research Reactor
abs232 L. Szentmiklosi
- PB19 The Effect of Bitumen Layers on Radon Exhalation from NORM
abs260 S. Takriti
- PB20 Determining Rn-222 emanation rate in gravel by liquid scintillation counting
abs125 T. Turtiainen
- PB21 Direct Measurement of Alpha Spectrometric Sources by Laser Ablation Inductively Coupled Plasma Mass Spectrometry
abs251 Z. Varga
- PB22 Uranium extraction from natural waters by ionic liquids
abs49 G. Wallner
- PB23 Composite ion exchanger with Titanium (IV) Vanadate and its application in radioactive waste
abs115 R. Yavari

Radionuclide production

- PB24 Production of technetium-95 via ruthenium-95
abs141 R. Aliev
- PB25 The Triton-Induced Production of V-48 in a Nuclear Reactor
abs139 I. Cohen
- PB26 Ho-166 and Lu-177 radioisotopes preparation and study of complexation reaction with DOTA
abs81 M. Kropacek
- PB27 Radiochemical procedures for the extraction, separation and purification of Ac-225 and Ra-226 from irradiated targets at the 22 MeV cyclotron of the TUM
abs186 J. Moreno Bermudez
- PB28 Production of I-124 on an 18/9 MeV Cyclotrone.
abs80 P. Rajec
- PB29 Chemical Separations Relevant to the Production of Zirconium and Yttrium Radionuclides from Irradiated Y, Rb and Sr Targets
abs92 B. Scholten
- PB30 Separation of Pd-103 from metal Rh by thermo diffusion
abs262 Z. Szucs

Radiotracers in life sciences

- PB31 PET-Imaging of the Opioid Receptors with labeled PEO derivatives
abs255 J. Marton
- PB32 F-18-fluoro-deoxyglucose, a putative prosthetic group for peptide labeling
abs150 N. Pótári
- PB33 Synthesis and stability studies of Rh[16aneS₄-diol] At⁺-211 and Ir[16aneS₄-diol] At⁺-211 complexes-possibly new agents for labelling biomolecules with At-211
abs26 M. Pruszynski
- PB34 Technicium-99m Human immuno globulin labeling, using HYNIC for infection imaging in experimental animals.
abs97 R. Saeed
- PB35 One-Pot Radiosynthesis of [N-13]Carbamate and [N-13]Urea Using No-carrier Added [N-13]NH₃
abs235 M. Zhang
- PB36 Lu-177 specific activity influence over DOTATATE radiolabeling: experimental data
S. Papi

Radionuclides in geo- and cosmochemistry

- PB37 Modelling the Sorption of Various Cations on Granite and its Constituent Minerals
abs146 F. Ebong
- PB38 Effect of humic acid on the adsorption of Zn-65 on granite and Cu-64 on kaolinite
abs140 F. Fellmer
- PB39 Positron Emission Tomography for Modelling of Geochemical Transport Processes in
Granite Fractures
abs198 M. Gründig
- PB40 Applying INAA to raising a chemo-stratigraphy of a complex volcanic eruption
sequence on Nisyros and Tilos, Greece
abs42 M. Bichler

Radiochemistry in nuclear energy production

- PB41 Determination of Ni-59 using LEPS
abs90 J. Bena
- PB42 Application Of Indigenous Inorganic Sorbents In Combination With Membrane
Technology For Treatment Of Radioactive Liquid Waste From Decontamination Pr
abs272 M. Dulama
- PB43 An Improved Approach to Chemistry Modelling for Vapour and Aerosol Transport
Analyses
abs172 M.H. Kaye
- PB44 Coprecipitation of Cs-137 and Sr-85 Microquantities with Complex Compound [M(18-
crown-6)]BPh₄ (M- Na⁺, Cs⁺) from Neutral and Alkaline Solutions
abs9 N. Konovalova
- PB45 Role of diluent on strontium extraction and transport using DTBCH18C6 as the
extractant
abs203 P. Mohapatra
- PB46 Extraction of Lanthanides and Actinides
abs213 A. Paulenova
- PB47 Extraction of U(VI) Using Pyrrolidone Derivatives as Extractants
abs67 Y. Takahashi

Radioecology and environmental sciences

- PB48 Cs-137 and Pb-210 as tracers of sedimentation in the Kara Sea
abs245 R. Aliev
- PB49 Uranium removal from aqueous solutions using spent grains as biosorbent
abs143 V. Anagnostopoulos
- PB50 Electrophoretic Characterization of Thorium Humate Complexes in Aqueous Solutions
abs51 P. Benes

- PB51 Radiation dechlorination of some chlorinated aliphatic hydrocarbons
abs36 M. Bunata
- PB52 Analysis of uranium isotopes in environmental and nuclear materials by alpha
spectrometry
abs27 F. Carvalho
- PB53 Element content in mosses and lichenized fungi from Livingston Island (Antarctica):
influence of altitude and substrates
abs274 O. Culicov
- PB54 Some Conclusions on Radioactivity Monitoring of Romanian Danube Basin
abs230 R. Dobrin
- PB55 Radiation Removal of Different Ionic Forms of Lead from Aqueous Solutions
abs152 B. Drtinova
- PB56 Selected Trace and Minor Elements Analysis in Sandstones from Eastern Paraguay
abs69 J. Facetti-Masulli
- PB57 An optimal radiochemical procedure, involving peroxide fusion, for U and Th natural
isotopes measurement in the coastal zone of Mohammedia (Morocco)
abs241 C. Galindo
- PB58 Deposition Behaviors of Plutonium and Thorium isotopes Observed in Japan:
Comparison between MRI and Mt. Haruna
abs44 K. Hirose
- PB59 Role of mushrooms in the internal dose formation for the population after the
Chernobyl accident
abs79 M. Kaduka
- PB60 Residual radiation of medical linear accelerators
abs98 J. Kóbor
- PB61 Study of Iron Oxide Coating Effects on Cs, Pu and Am Sorption to Clays
abs170 G. Lujaniene
- PB62 Some approaches for determination of Sr-90 and Cs-137 in live small birds of the
Chernobyl Exclusion Zone
abs185 A. Maksymenko
- PB63 Pilot measurements of Np-237 in forest litter from Poland
abs160 J. Mietelski
- PB64 Cesium and thorium removal from aqueous solutions using Al³⁺- and Fe³⁺-modified
titanium- and zirconium phosphates
abs225 P. Misaelides
- PB65 Infrared spectroscopic comparison of the aqueous species of uranium(VI) and
neptunium(VI)
abs156 K. Müller
- PB66 Electrochemical Separation of Radionuclides from Contaminated Soils
abs261 M. Nemeč
- PB67 Choice of chemical reagent structure to clean up ground

abs94 V. Nikolaevsky

PB68 Effect of growth conditions on biosorption of Eu, U and Th by yeast cells
abs99 B. Symeopoulos

PB69 Radioecology of Iodine-129: From Sea to Land
abs136 L. Tosch

PB70 Comparison of thermoluminescent dosimeter (TLD) systems during environmental
monitoring
abs214 T. Vajda-Katona

PB71 Tritium Measurement in the Groundwater Using Electrolytic Enrichment Method
abs40 Y.Y. YOON

Nuclear methods in material science and industrial applications

PB72 Planning of PGNAA Facilities at the Portuguese Research Reactor using MCNP
abs243 D.G. Beasley

PB73 Effect of Bi_2O_3 Content on Optical and Radiation-Shielding Properties of $(\text{Na}_2\text{O}, \text{K}_2\text{O})\text{-SiO}_2\text{-CaO-Al}_2\text{O}_3\text{-B}_2\text{O}_3$ Glass System
abs256 P. Dararutana

PB74 Physicochemical Studies on Cross-linked Thorium Alginate Complex Especially the
Electrical Conductivity and Chemical Equilibrium
abs106 R. Hassan

PB75 Analysis of slag cement based concrete using PGNAA technique
abs190 A. Naqvi

PB76 Investigation of the occupational exposure in a romanian fertilizer plant by instrumental
neutron activation analysis of hair and nail samples
abs283 A. Pantelica