

POSTERS SESSION

Actinides and fission product chemistry

ATAL2016-009	Physical properties of highly active liquor containing molybdate solids Barbara DUNNETT (NNL, Cumbria, uk)		
ATAL2016-012	Use of TRLFS and ESI-MS methods for search and characterization of Cm(III) and Eu(III) complexes with SO ₃ -Ph-BTP and TODGA ligands in solvent extraction systems Irena HERDZIK-KONIECKO (INCT, Poland)		
ATAL2016-016	Comparative NMR Study of nPrBTP and iPrBTP Complexes Christian ADAM (KIT-INE, Germany)		
ATAL2016-022	Study of cesium extraction using novel ligands for the development of a supercritical carbon dioxide decontamination process Sonia MONTEL (CEA Marcoule, France)		
ATAL2016-023	Radiolytic molecular hydrogen production from the gamma irradiation of TODGA and n-dodecane solutions Katherine BATES (University of Manchester, UK)		
ATAL2016-027	HEH[EHP] behavior in the ALSEP process Vanessa HOLFELTZ (Oregon State University, Us)		
ATAL2016-029	Complexation of Diglycolamide Functionalized Calix[4]Arenes with Trivalent f-elements Seraj ANSARI (Bhabha Atomic Research Centre, India)		
ATAL2016-031	Development of a gas trapping system for gaseous fission products throughout dissolution of irradiated fuels in hot cells. Gilles FERLAY (CEA/DRCP/SERA, France)		
ATAL2016-036	An(III and IV) speciation with alpha-hydroxy carboxylate ligands. Gabriel MANIE (CEA Marcoule, France)		
ATAL2016-037	Stability of Np(V)-U(VI) cation-cation interactions in TBP organic phase Tamara GRIFFITHS (National Nuclear Laboratory, United Kingdom)		
ATAL2016-038	Activity coefficients of nitrate uranyl and nitric acid in mixtures Alexander OCHKIN (Mendeleev University of Chemical Technology, Russia)		
ATAL2016-040	Early stages of CyMe ₄ BTPhen radiation chemistry in 1-octanol Tomasz SZREDER (INCT, Poland)		
ATAL2016-042	Gamma-radiolytic stability of new methylated TODGA derivatives for minor actinide recycling Andreas WILDEN (Forschungszentrum Jülich GmbH, Germany)		
ATAL2016-224	Theoretical modelling of An(III)/Ln(III) separation Artem MITROFANOV (Moscow State University, Russia)		
ATAL2016-246	Unraveling the structure and the excited state dynamics of the aqueous cerium(III) ion by combined experimental and theoretical approaches. Florent RÉAL (Université de Lille, UMR-CNRS 8523, France)		
ATAL2016-253	Radiolysis of air-water systems Ivan KAJAN (Chalmers University of Technology, Sweden)		
ATAL2016-257	Understanding aqueous equilibria in lanthanide-actinide separations Wanda Stuber (University of Oxford, UK)		

Front-end of the fuel cycle

ATAL2016-043	A Comparative Study on Uranium Recovery from Central Anatolia Region Uranium Ores Kamer DERIN (General Directorate of Mineral Research, Turkey)	
ATAL2016-045	Environmental impact assessment of uranium ore mining and milling with a LCA approach Jean-Louis GIROTTO (CEA Marcoule, France)	
ATAL2016-240	Development of new ligands for the selective extraction of uranium and rare earths Guillaume MOSSAND (CEA Marcoule, France)	

Actinide separation processes

ATAL2016-052	Back-extraction in a GANEX system based on phenyl trifluoromethyl sulfone Jenny HALLERÖD (Chalmers University of Technology, Sverige)	
ATAL2016-053	Separation Np from Pu Based on Nonequilibrium Reduction-stripping by Using Hydrazine Derivatives as Reductant Yang HE (China Institute of Atomic Energy, China)	
ATAL2016-054	Chemical engineering modeling for apparatus devices and performances Gilles BORDA (CEA Marcoule, France)	
ATAL2016-063	Towards the origin of effective An(III)/Ln(III) separation Michael TRUMM (Karlsruhe Institute of Technology, Germany)	
ATAL2016-064	i-SANEX single-stage centrifugal contactor experiment with a novel hydrophilic complexing agent Eros MOSSINI (Politecnico di Milano, Italy)	
ATAL2016-066	Hydrometallurgical reprocessing of BREST-OD-300 reactor mixed uranium-plutonium fuel Andrei SHADRIN (ITCP, Russia)	
ATAL2016-067	Uranium and plutonium extraction by N,N-dialkylamides using multistage mixer-settler extractors Yasutoshi BAN (Japan Atomic Energy Agency, Japan)	
ATAL2016-068	Kinetic studies by using microfluidic technique Petr DISTLER (CTU in Prague, Czech republic)	
ATAL2016-071	Radiation influencing of the extraction properties of the CyMe4-BTBP and CyMe4-BTPhen solvents with FS-13 Jana KONDÉ (CTU in Prague, Czech republic)	
ATAL2016-073	Dynamic test of the UNEX-T process for the simultaneous separation americium, cesium and strontium from high-level PUREX raffinate Vitaliy VIDANOV (Institution «ITC «PRORYV» PROJECT», Russia)	
ATAL2016-074	Minor Actinide Recovery Process for the RBWR Fuel Cycle Daisuke WATANABE (Hitachi, Ltd., Japan)	
ATAL2016-078	Research on the Oxidation and Extraction of Americium(VI) from Lanthanides Jack LAW (Idaho National Laboratory, Usa)	
ATAL2016-082	Selective extraction of Am(III), Cm(III) and Eu(III) by derivatives of phenantroline- and pyridine-dicarboxylic acids Petr MATVEEV (Moscow State University, Department..., Russia)	
ATAL2016-084	Lab-scale integrative device and process for preparation of 2AF solution in APOR process Chen ZUO (China Institute of Atomic Energy, China)	
ATAL2016-086	Experimental characterization of droplets and interfacial area in liquid-liquid extraction systems with rainbow refractometry Mariam OUATTARA (CEA Marcoule, France)	
ATAL2016-089	Decontamination of high level activity solutions from cesium and strontium by chromatography Christophe MAILLARD (CEA Marcoule, France)	
ATAL2016-090	Innovative precipitation in emulsion process: toward a non-nuclear industrial application Sophie CHARTON (CEA Marcoule, France)	

ATAL2016-092	Pressure drop in pulsed extraction columns: new results Sophie CHARTON (CEA Marcoule, France)		
ATAL2016-193	Study and modelling of droplets evolving in a pulsed column Sophie CHARTON (CEA Marcoule, France)		
ATAL2016-196	Digital in-line holography for particle characterization in liquid/liquid extraction devices Matthias SENTIS (CEA Marcoule, France)		
ATAL2016-197	Development of experimental design and image processing methods for drops diameter measurement in an annular centrifugal solvent extraction contactor Patrick RIVALIER (CEA Marcoule, France)		
ATAL2016-215	Design, development and testing of miniature Liquid-Liquid Extraction contactors for R&D studies in nuclear environment Hervé ROUSSEL (CEA Marcoule, France)		
ATAL2016-217	Numerical study of the efficiency of a solid-liquid centrifuge separator Tojonirina RANDRIAMANANTENA (CEA Marcoule, France)		
ATAL2016-218	Taylor-Couette contactor as miniaturized column for solvent extraction pilot tests Hervé ROUSSEL (CEA Marcoule, France)		
ATAL2016-222	Computational filterability and dewatering determination based on shape and size distribution of solids in suspension Jean-Pierre FERAUD (CEA Marcoule, France)		
ATAL2016-228	Decomposition Studies Of Aqueous Phase Ligands Used In Advanced Reprocessing Flowsheets Stacey Reilly (NNL, UK)		
ATAL2016-230	1,10-Phenanthroline-2,9-dicarboxamides as ligands for minor actinides separation Mikhail ALYAPYSHEV (Khlopin Radium Institute, Russia)		
ATAL2016-232	Study of Organic Phase Lanthanide Complexes in the ALSEP Process Alena PAULENOVA (Oregon State University, Usa)		
ATAL2016-247	Parameters of oxidative processes in the extractant system 30% TBP in Isopar-M - HNO ₃ at atmospheric pressure Elena BELOVA (Russian academy of sciences, Russia)		

Pyrochemistry

ATAL2016-007	Evaporation of fission products from lead bismuth coolant: a transpiration mass spectrometry study Kim RIJPSTRA (SCK-CEN, Belgium)		
ATAL2016-170	Minimization of Li Codeposition at Electrowinning by Operating Condition Control Sungjune SOHN (Seoul National University, South Korea)		
ATAL2016-171	Experimental verification of selected processes devoted to MSR fuel cycle technology Jan UHLIR (Research Centre Rez, Czech republic)		
ATAL2016-173	Effect of Salt and Metal Phase composition on U/REE Separation Factor in Chloride Melt Liquid Metal System Dmitry MALTSEV (Ural Federal University, Russia)		
ATAL2016-176	"Reduction yield determination of electrochemically reduced SIMFuel Tae-hong PARK (KAERI, South korea)"		
ATAL2016-177	Characterization of cathode materials for U electrorefining process in LiCl-KCl molten salts Chang hwa LEE (KAERI, Republic of korea)		
ATAL2016-178	Phosphate precipitation of rare earths from chloride melts: Particle size distribution in the precipitates Alexander IVANOV (Ural Federal University, Russia)		
ATAL2016-181	Electrochemical behavior of neodymium in molten LiCl-KCl salts Laure DIAZ (CEA Marcoule, France)		

ATAL2016-183	First principles study of the thermodynamic and kinetic properties of U in an electrorefining system using Molybdenum cathode and LiCl-KCl eutectic molten salt Joonhee KANG (DGIST, Republic of Korea)		
ATAL2016-187	Characteristics of Zr deposit involving residual oxygen recovered by molten salt electro-winning Jeong hun CHOI (Chungnam National University, Korea)		
ATAL2016-192	Injection casting of metallic fuel slugs containing volatile elements Jeong-yong PARK (KAERI, Republic of Korea)		
ATAL2016-256	The development of aluminium microelectrodes for online monitoring in nuclear pyrochemical processing Simon REEVES (University of Edinburgh, UK)		
ATAL2016-259	Pyrochemical treatment of spent salt by oxidation and vacuum distillation process Olivier LEMOINE (CEA Valduc, France)		
ATAL2016-260	Electrochemical behaviors of inert anodes: application to molten CaCl ₂ -CaO deoxidation Olivier LEMOINE (CEA Valduc, France)		

Actinides materials

ATAL2016-095	Dissolution Performance of Plutonium Nitride Based Fuel Materials Emma ANEHEIM (Chalmers University of Technology, Sweden)		
ATAL2016-097	Purification of zirconium cladding using a chloride volatility process. Rosendo BORJAS NEVAREZ (University of Nevada Las Vegas, United States)		
ATAL2016-099	Corrosion Studies on Austenitic Stainless Uranium S1N steels under Nuclear Fuel Dissolution Conditions Sandrine COSTENOBLE (CEA Marcoule, France)		
ATAL2016-101	Understanding uranium binding mechanisms and speciation on stainless steel Timothy KERRY (University of Manchester, United Kingdom)		
ATAL2016-102	Modelling of powder die compaction: press cycle effect on the sintered pellet shape Jean Philippe BAYLE (CEA Marcoule, France)		
ATAL2016-103	Hydrothermal synthesis of CeSiO ₄ and ThSiO ₄ from a nitric acid media Paul ESTEVENON (CEA Marcoule, France)		
ATAL2016-105	Control of the surface area of the PuO ₂ produced in La Hague reprocessing plant Jeremy NOS (AREVA NC, France)		
ATAL2016-108	AGR cladding corrosion: Investigation of the effect of temperature on sensitized and unsensitized steel Elizabeth HOWETT (Lancaster University, United Kingdom)		
ATAL2016-109	VHTR, ADS and PWR Spent Nuclear Fuel Analysis Claudia PEREIRA (Universidade Federal de Minas Gerais, Brazil)		
ATAL2016-116	New analytical developments for powder characterization Emmanuelle BRACKX (CEA Marcoule, France)		
ATAL2016-120	The stability of uranium oxide microspheres for future application as reference standard in analytical measurements Ronald MIDDENDORP (Forschungszentrum Jülich GmbH, Germany)		
ATAL2016-121	Oxidation of model uranium-plutonium nitride fuel and the impact of the process on dilution in nitric acid Ekaterina PAVLUKEVICH (JSC, Russia)		
ATAL2016-126	Interaction of nitric acid and Fe, Cr, Ni, Zn intermetallides obtained as a result of Zn stripping from solutions of steel EP823 in the same Konstantin DVOEGLAZOV (ITCP «PRORYV», Russia)		
ATAL2016-127	Modification of Hydrolyzed Acid Deficient Uranyl Nitrate Solutions Preparation Method for Synthesis of Uranium Oxide Free-Flowing Powders Konstantin DVOEGLAZOV (ITCP «PRORYV», Russia)		

ATAL2016-135	Comparison of the method of classes and the quadrature of moment for the modelling of Neodymium Oxalate Precipitation Jean-Philippe GAILLARD (CEA Marcoule, France)		
ATAL2016-139	Recent results on the U-Pu-Pb-Bi-O phase relation Karin POPA (JRC-ITU, Germany)		
ATAL2016-142	Thermodynamic modeling of the phase composition of uranium-tantalum carbide under fast-neutron irradiation to burn-up 3 % and temperature 1700-2300 K Andrei ANDROSOV (Federal State Unitarian Enterprise, Russian federation)		
ATAL2016-145	Investigation of the sintering mechanisms for (U,Am)O ₂ pellets obtained by CRMP process Marie CAISSO (CEA Marcoule, France)		
ATAL2016-219	First-principles based computational study on nucleation and growth mechanisms of U on Mo(110) surface solvated in an eutectic LiCl-KCl molten salt Choah KWON (Yonsei University, Korea)		
ATAL2016-238	The effect of actinide/lanthanide extraction ligands on nuclear process steel corrosion Richard WILBRAHAM (Lancaster University, UK)		

Waste management, storage and environmental chemistry

ATAL2016-006	Decontamination of Atalante's Liquid Waste: Chemistry and Process Sébastien PETIT (CEA Marcoule, France)		
ATAL2016-151	Behavior of metallic aluminum and uranium in cement matrices Sylvie DELPECH (CNRS, France)		
ATAL2016-155	Determination of nickel 63 in complex radioactive waste Linda GRAVIER (CEA Cadarache, France)		
ATAL2016-156	Simulating the physicochemical properties of simplified nuclear glasses (SiO ₂ -B ₂ O ₃ -Na ₂ O-La ₂ O ₃) using a polarizable force field. Fabien PACAUD (CEA Marcoule, France)		
ATAL2016-157	Aluminosilicate glasses structure and behavior under electron irradiation Alexandre LE GAC (CEA Marcoule, France)		
ATAL2016-162	On the occurrence conditions of pyroxenes and zirconolites phases in a lanthanides-rich aluminosilicate ceramic glass Kamel NOUR-EL-HAYET (Centre de Recherche Nucléaire d'Algérie, Algérie)		
ATAL2016-165	Evaluating the Risk of Retrieving High-Level Waste Repository on Post-Closure Phase Inhye HAHM (Seoul National University, Republic of Korea)		
ATAL2016-167	Using of clay-salt slimes as a sorbent of radionuclides and for safety disposal of radioactive waste Maskalchuk LEANID (National Academy of Sciences, Belarus)		
ATAL2016-186	Long-term Environmental Assessment of Waste from PyroGreen System Heejae JU (Seoul National University, Korea)		
ATAL2016-243	Potential Geologic Host Formations for Radioactive Waste Storage Characterized by Thermal Analysis Methods Ekkehard POST (NETZSCH Geraetebau GmbH, Germany)		
ATAL2016-262	Incineration of ion exchange nitrate resins contaminated by alpha emitters. Florent Germaneau (CEA Valduc, France)		

Analysis

ATAL2016-005	Assessment of the occupational radiation exposure in nuclear cycles Anne SATURNIN (CEA Marcoule, France)		
ATAL2016-200	Actinide L-line ED-XRF and HKED Spectra Processing Eric ESBELIN (CEA Marcoule, France)		
ATAL2016-201	XAS Spectroelectrochemistry at SOLEIL Synchrotron Richard HUSAR (CEA Marcoule, France)		
ATAL2016-202	Development of an opto-fluidic microsystem dedicated to chemical analysis in a nuclear environment Fabien GEOFFRAY (CEA Marcoule, France)		
ATAL2016-204	Contribution To The Physical Modeling Of The Actinide Characterization By Electron Probe Microanalysis Aurélien MOY (CEA / Université de Montpellier, France)		
ATAL2016-207	Coupling ICP / MS - Laser ablation : relevance for prototypical Corium characterization Joel FAURE (CEA Marcoule, France)		
ATAL2016-208	Measuring noble gases in materials for nuclear applications: presentation of the high-sensitivity counting and low-level detection PIAGARA platform Denis HORLAI (CNRS, France)		
ATAL2016-210	Application of multi-step excitation schemes for detection of actinides and lanthanides in solutions by chemiluminescence laser spectroscopy Igor IZOSIMOV (Joint Institute for Nuclear Researc..., Russia)		

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