

ATALANTE 2016

nuclear chemistry for sustainable fuel cycles

June 5-10, 2016

Le Corum, Montpellier, FRANCE

Programme of the Conference



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Programme Overview

Sunday 5 June		Monday 6 June		Tuesday 7 June	Wednesday 8 June	Thursday 9 June	Friday 10 June
	08:30	Opening					Visite of CEA Marcoule Research Center
	08:50	INTERNATIONAL PANORAMA					
	9:10		9:00				
	9:30		9:30				
	9:50		9:50				
	10:10		10:10				
	10:30	Coffee Break	10:30	Coffee Break	Coffee Break	Coffee Break	
	11:00	INTERNATIONAL PANORAMA	11:00				
	11:20		11:20				
	11:40		11:40				
	12:00	Lunch	12:00	Lunch	Lunch	Lunch	
	14:00		14:00			Round Table	
	14:30		14:30				
	14:50		14:50				
	15:10		15:10				
	15:30		Coffee Break	15:30	Coffee Break		
16h-18h REGISTRATION	16:00		16:00			Concluding Lecture	
	16:20		16:30				
	16:40		16:50				
	17:00		17:10			Conclusion	
	17:20		17:30				
18h -WELCOME COCKTAIL	18:00		18:00	POSTER SESSION	CONFERENCE DINNER		

-  cross-cutting issues
-  Actinides and fission product chemistry
-  Front-end of the fuel cycle
-  actinide separation processes
-  Pyrochemistry
-  actinides materials
-  Waste management, storage and environmental chemistry
-  Analysis

Monday, June 6th, 8:30-12:30

OPENING PLENARY SESSION

8:30 *Representative of the Languedoc Roussillon Midi Pyrénées
Region and
Daniel VERWAERDE, Chairman, CEA, France*

9:00 **International overview of nuclear strategy
with the contribution of**

François GAUCHÉ

Nuclear Energy Division, CEA, France

Guillaume DUREAU

AREVA, France

Yutaka SAGAYAMA

Japan Atomic Energy Agency, Japan

Patricia PAVIET

Department of Energy, USA

Fiona RAYMENT

National Nuclear Laboratory, UK

Kee Chan SONG

Korean Atomic Energy Research Institute, Republic of Korea

YE Guoan

China Institute of Atomic Energy, China

Monday, June 6th, 14h-18h

14:00	<p>ATAL2016-058 - Recent progress on R&D of minor actinide separation process with innovative extractants in JAEA</p> <p>Tatsuro MATSUMURA (Japan Atomic Energy Agency, Japan)</p>	<p>ATAL2016-147 - Understanding driving forces of the order/disorder transition in pyrochlores by a combined experimental and atomistic simulation study</p> <p>Sarah FINKELDEI (Forschungszentrum Jülich GmbH, Germany)</p>	<p>ATAL2016-174 - Electrorefining of irradiated metallic fuel in molten LiCl-KCl using solid reactive and inert cathodes</p> <p>Pavel SOUCEK (JRC-ITU, Germany)</p>
14:30	<p>ATAL2016-048 - Advanced separation processes in European projects - more than 20 years of development.</p> <p>Stéphane BOURG (CEA Marcoule, France)</p>	<p>ATAL2016-125 - Capture of elemental and organic iodine from dilute gas streams by silver-exchanged mordenite</p> <p>Stephanie BRUFFEY (Oak Ridge National Laboratory, United states)</p>	<p>ATAL2016-182 - Electrochemical behavior of U(IV) in LiF-ThF4 molten salt</p> <p>Gabriela DURAN KLIE (IPNO, France)</p>
14:50	<p>ATAL2016-227 - The EURO-GANEX process: current status of flowsheet development and process safety studies</p> <p>Robin TAYLOR (NNL, UK)</p>	<p>ATAL2016-129 - Thorium effect on the oxidation of uranium through photoelectron spectroscopy (XPS/UPS) and cyclic voltammetry (CV) investigation on (U_xTh_{1-x})O₂ thin films</p> <p>Pelin CAKIR (JRC-ITU, Germany)</p>	<p>ATAL2016-191 - Decontamination of ceramic crucible by leakage of liquid bismuth cathode elements in electrowinning process in pyroprocessing</p> <p>Daeyoung KIM (Chungnam national university, Republic of Korea)</p>
15:10	<p>ATAL2016-057 - Recent R&D towards aqueous reprocessing of FBR fuels</p> <p>Mallika CHELLANADAR (Indira Gandhi Centre for Atomic Research, India)</p>	<p>ATAL2016-107 - Analytical characterisation of nuclear accident corium materials</p> <p>Emmanuelle BRACKX (CEA Marcoule, France)</p>	<p>ATAL2016-190 - UF₆ preparation by electrolysis in molten salt</p> <p>Pierre CHAMELOT (LGC Toulouse, France)</p>
15:30	COFFEE BREAK		
16:00	<p>ATAL2016-148 - Co-crystallization of hexavalent actinide nitrates: Group actinide separation of uranium through americium</p> <p>Bruce MOYER (Oak Ridge National Laboratory, USA)</p>	<p>ATAL2016-122 - A thermodynamic study on Cs and I speciation in nuclear fuel</p> <p>Joaquina ZAPPEY (JRC-ITU, Germany)</p>	<p>ATAL2016-172 - Spectroscopic studies of selected lanthanides and uranium in molten chlorides</p> <p>Hugues LAMBERT (University of Manchester, UK)</p>
16:20	<p>ATAL2016-056 - PAREX, a numerical code in the service of La Hague plant operations</p> <p>Julia BISSON (AREVA NC, France)</p>	<p>ATAL2016-131 - Compaction of porous metal oxide microspheres: a multi-scale approach</p> <p>Paul PARANT (CEA Marcoule, France)</p>	<p>ATAL2016-179 - Separation Behavior of Cs and Sr by Zone Refining Process for Pyroprocessing Process Waste Salt Minimization</p> <p>Moonsoo SHIM (Chungnam National University, Republic of Korea)</p>
16:40	<p>ATAL2016-231 - Experimental and modeling study of ruthenium extraction with TBP</p> <p>Manuel MIGUIRDTICHIAN (CEA Marcoule, France)</p>	<p>ATAL2016-133 - Irradiation Defects in UO₂ leached in oxidizing water: An in-situ Raman study</p> <p>Lionel DESGRANGES (CEA, France)</p>	<p>ATAL2016-185 - First principles based computational study of electrorefining process for spent nuclear fuels</p> <p>Byungchan HAN (Yonsei University, Korea)</p>
17:00	<p>ATAL2016-225 - Development of mathematical model of H₂O-HNO₃-UO₂(NO₃)₂-TBP-diluent system</p> <p>Alexander OCHKIN (Mendeleev University of Chemical Technology, Russia)</p>	<p>ATAL2016-001 - Towards Cleaner Methods for the Production of Mo-99 Using Refractory Ceramics and its Relevance to Actinide Partitioning and Transmutation</p> <p>Vittorio LUCA (Comisión Nacional de Energía Atómica, Argentina)</p>	<p>ATAL2016-206 - Development of robust microelectrodes for online monitoring in nuclear pyrochemical processing.</p> <p>Damion CORRIGAN (University of Edinburgh, UK)</p>
17:20	<p>ATAL2016-235 - Could we recycle the critical raw materials which are present within spent nuclear fuels?</p> <p>Stéphane BOURG (CEA Marcoule, France)</p>		

Tuesday, June 7th, 9h – 12h30

9:00	<p>ATAL2016-003 - International collaboration for Future Nuclear Fuel Cycles Terry TODD (Idaho National Laboratory, Usa)</p>	<p>ATAL2016-113 - Study of the solid solution BaxSr1-xTcO3 Gordon THOROGOOD (ANSTO, Australia)</p>	<p>ATAL2016-175 - Main results of the PIROSMANI project Victor IGNATIEV (NRC - Kurchatov Institute, Russia)</p>
9:30	<p>ATAL2016-249 - The sustainability, a relevant approach for defining the roadmap for future nuclear fuel cycles Christophe POINSSOT (CEA Marcoule, France)</p>	<p>ATAL2016-104 - Actinide incorporation in the phosphate low temperature precursors: the case of the rhabdophane and xenotime Adel MESBAH (ICSM Marcoule, France)</p>	<p>ATAL2016-180 - Kinetic evaluation of fission product absorption behavior in zeolite column for spent salt treatment in pyroprocess Koichi UOZUMI (CRIEPI, Japan)</p>
9:50	<p>ATAL2016-251 - Overview of fuel cycle perspective for France Emmanuel TOURON (CEA Saclay, France)</p>	<p>ATAL2016-119 - Preparation, characterization and sintering of yttrium-doped ThO2 for oxygen sensors applications Yanis H.CHERKASKI (CEA Cadarache, France)</p>	<p>ATAL2016-184 - MSFR reprocessing option using metallic liquid cathodes Mathieu GIBILARO (Laboratoire de Génie Chimique, France)</p>
10:10	<p>ATAL2016-008 - How to cope with aging equipment in La Hague reprocessing plant? Stéphanie DE SIO (AREVA NC, France)</p>	<p>ATAL2016-141 - U(V) stabilization in oxo-materials via aliovalent substitution and U(VI) reduction under extreme pressure Evgeny ALEKSEEV (Forschungszentrum Jülich GmbH, Germany)</p>	<p>ATAL2016-189 - Overview of applications of the pyrochemical DOS, developed by the CEA, within reprocessing of CERCER and CERMET transmutation fuel targets Eric MENDES (CEA Marcoule, France)</p>
10:30	COFFEE BREAK		
11:00	<p>ATAL2016-094 - Modeling and flowsheet design of an Am separation process using TODGA and TPAEN Vincent VANDEL (CEA Marcoule, France)</p>	<p>ATAL2016-143 - U1-xThx(C2O4) Solid Characterisation Studies Cheryl CARRIGAN (NNL, Uk)</p>	<p>ATAL2016-153 - THE NATURE OF THE VOLATILE TECHNETIUM SPECIES FORMED DURING VITRIFICATION OF BOROSILICATE GLASS Frederic POINEAU (University of Nevada Las Vegas, Usa)</p>
11:20	<p>ATAL2016-050 - Modelling of Innovative SANEX Process Maloperations David WOODHEAD (National Nuclear Laboratory, United kingdom)</p>	<p>ATAL2016-144 - New insight on the determination of the O/M ratio in dense (U,Am)O2 compounds Marie CAISSO (CEA Marcoule, France)</p>	<p>ATAL2016-154 - Flexible Waste Management to Increase the Effectiveness of Minor Actinide P&T Technology Tetsuo FUKASAWA (Hitachi-GE Nuclear Energy, Ltd., Japan)</p>
11:40	<p>ATAL2016-072 - Simulation study of sludge precipitation in reprocessing solution Masayuki TAKEUCHI (Japan Atomic Energy Agency, Japan)</p>	<p>ATAL2016-239 - Direct mass analysis of water absorption onto ceria thin films Dominic LAVENTINE (Lancaster University, UK)</p>	<p>ATAL2016-159 - Towards understanding of the multi beam irradiation scenarios: Mono, sequential and simultaneous beam irradiation of nuclear glass Sylvain PEUGET (CEA Marcoule, France)</p>
12:00	<p>ATAL2016-221 - Modeling closed nuclear fuel cycle processes Olga SHMIDT (Innovation and Technology Center, Russia)</p>	<p>ATAL2016-245 - Effect of hydration and thermal treatment on thorium surface Arnaud DEROCHE (CEA Marcoule, France)</p>	<p>ATAL2016-234 - Progress on plutonium residues and wastes management Gilles BOURGES (CEA Valduc, France)</p>

Tuesday, June 7th, 14h – 18h00

14:00	<p>ATAL2016-070 - ALSEP Process Development: Centrifugal Contactor Testing and Kinetic Microfluidic Studies Artem GELIS (Argonne National Laboratory, Usa)</p>	<p>ATAL2016-254 - First Annular (U,Pu)O₂-x pellets for Astrid reactor project Thierry GERVAIS (AREVA MELOX, France)</p>	<p>ATAL2016-168 - Assessing the role and importance of calcium-uranyl carbonate complexes in uranium mobility in the geosphere: evidences from uranium ore deposits Jordi BRUNO (Amphos 21 Group, Spain)</p>
14:30	<p>ATAL2016-075 - Study of U(VI) and Pu(IV) mass transfer kinetics with N,N-dialkylamides in liquid-liquid extraction Anne LELIAS (CEA Marcoule, France)</p>	<p>ATAL2016-098 - Long-term behavior of highly refractory thorium-plutonium dioxide solid solutions Laurent CLAPAREDE (University of Montpellier, France)</p>	<p>ATAL2016-152 - Monazite ceramics for nuclear waste management strategies: An experimental and modeling study Stefan NEUMEIER (Forschungszentrum Juelich GmbH, Germany)</p>
14:50	<p>ATAL2016-216 - Experimental and modeling study of fission products and minor actinides extraction with N,N-dialkylamides Pauline MOEYAERT (CEA Marcoule, France)</p>	<p>ATAL2016-106 - Corrosion of AGR Fuel Pin Steel under Conditions Relevant to Permanent Disposal Christopher ANWYL (Lancaster University, United Kingdom)</p>	<p>ATAL2016-160 - Synthesis and characterization of brannerite wastefoms for the immobilization of mixed oxide fuel residues Daniel BAILEY (University of Sheffield, United kingdom)</p>
15:10	<p>ATAL2016-250 - From actinides to Critical Raw Materials: on the relevance and significance of developing efficient recycling processes Vincent BLET (CEA Marcoule, France)</p>	<p>ATAL2016-161 - Studies on solid solution formation and thermochemistry of La_{1-x}Ln_xPO₄-monazites (Ln= Gd, Eu) Yulia ARINICHEVA (Forschungszentrum Jülich GmbH, Germany)</p>	<p>ATAL2016-237 - The uptake of Pu(IV) colloids by Äspö diorite in batch and diffusion experiments Stellan HOLGERSSON (Chalmers University of Technology, Sweden)</p>
15:30	COFFEE BREAK		
16:00	<p>ATAL2016-093 - The SACSESS hydrometallurgy domain: an overview Andreas GEIST (KIT-INE, Germany)</p>	<p>ATAL2016-198 - Do not censor ?non-significant? measurement values, they contain information! Stéphane PUYDARRIEUX (AREVA NC La Hague, France)</p>	<p>ATAL2016-010 - Structure and energetics of Pu(IV) with N,N-dialkylamides from EXAFS and theoretical calculations Eleonor ACHER (CEA Marcoule, France)</p>
16:30	<p>ATAL2016-076 - Development of a selective americium separation process using TPAEN as a water-soluble stripping agent Cecile MARIE (CEA Marcoule, France)</p>	<p>ATAL2016-203 - Development of optical techniques for chemical engineering applications Fabrice LAMADIE (CEA Marcoule, France)</p>	<p>ATAL2016-033 - Extraction Behavior of T2EHDGA and HEH[EHP]: Understanding of ALSEP Chemistry Tatiana LEVITSKAIA (Pacific Northwest National Laboratory, USA)</p>
16:50	<p>ATAL2016-213 - Modelling of Nitric and Nitrous Acid Chemistry for Solvent Extraction Processes Fiona MCLACHLAN (NNL, Uk)</p>	<p>ATAL2016-205 - MicroRaman Measurements for Nuclear Fuel Reprocessing Applications Amanda CASELLA (Pacific Northwest National Laboratory, U.s.a.)</p>	<p>ATAL2016-011 - Actinide cations in solution: Paramagnetic properties and NMR Claude BERTHON (CEA Marcoule, France)</p>
17:10	<p>ATAL2016-194 - Relevance of CFD in the development of separation processes Sophie CHARTON (CEA Marcoule, France)</p>	<p>ATAL2016-211 - Free acidity determination in U (VI) solutions: A modern approach through Sequential Injection Analysis Jose Antonio NERI QUIROZ (ICSM Marcoule, France)</p>	<p>ATAL2016-039 - Studies on Synthesis and Performance of Mixed Trialkyl Phosphine-Oxide(TRPO) Jianchen WANG (INET, Tsinghua University, China)</p>
17:30	<p>ATAL2016-199 - Active interface in liquid/liquid extraction processes probed by neutron and x-ray reflectivity Olivier DIAT (ICSM, France)</p>	<p>ATAL2016-212 - Evaluation of different specific methods for the determination of iodine 129 trace amounts in bituminised waste Olivier VIGNEAU (CEA, France)</p>	<p>ATAL2016-209 - Sonochemistry of Plutonium Matthieu VIROT (ICSM Marcoule, France)</p>

POSTER SESSION: 18h – 20h

Wednesday, June 8th, 9h – 12h30

9:00	<p>ATAL2016-088 - First Achievements of the CEA R&D on Advanced Fuel Treatment including Multi-Recycling of Plutonium Stephane GRANDJEAN (CEA Marcoule, France)</p>	<p>ATAL2016-110 - Modulation of plutonium oxide morphology by changing the precipitation conditions of plutonium oxalate precursors Benedicte ARAB-CHAPELET (CEA Marcoule, France)</p>	<p>ATAL2016-169 - Removal Process of Radioactive Cesium from Soil contaminated by Fukushima Daiichi Nuclear Accident Kenji TAKESHITA (Tokyo Institute of Technology, Japan)</p>
9:30	<p>ATAL2016-004 - Radioactive waste inventories in the case of different nuclear options for the French reactor fleet Anne SATURNIN (CEA Marcoule, France)</p>	<p>ATAL2016-111 - Crystal growth and agglomeration study of uranium peroxide precipitation Murielle BERTRAND (CEA Marcoule, France)</p>	<p>ATAL2016-163 - Structural characterization of geopolymers for the safe disposal of the fission products Cs-137 and Sr-90 Simone WEIGELT (Forschungszentrum Jülich GmbH, Germany)</p>
9:50	<p>ATAL2016-051 - Development of partitioning processes for minor actinides to be applied at long term: Influence of gamma radiation on extraction systems based on diglycolamides and water soluble SO₃-Ph-BTP Hitos GALAN (CIEMAT, Spain)</p>	<p>ATAL2016-112 - The Weak Acid Resin process: a dustless conversion route for the synthesis of americium bearing-blanket precursors+E125 Sébastien PICART (CEA Marcoule, France)</p>	<p>ATAL2016-244 - Study of peraluminous glasses for high-level radioactive waste containment Victor PIOVESAN (CEA Marcoule, France)</p>
10:10	<p>ATAL2016-060 - Separation of Americium by Liquid-Liquid Extraction using Diglycolamides Complexing Agents Cecile MARIE (CEA Marcoule, France)</p>	<p>ATAL2016-118 - Methods to Synthesize Mixed Actinides Oxide Precursors: Conventional and Novel Approaches Stephane GRANDJEAN (CEA Marcoule, France)</p>	<p>ATAL2016-166 - Thermal Analysis of Spent Nuclear Fuels Repository Claudia PEREIRA (Universidade Federal de Minas Gerais, Brasil)</p>
10:30	COFFEE BREAK		
11:00	<p>ATAL2016-252 - Studies on ASTRID fuel cycle facilities Emmanuel TOURON (CEA Saclay, France)</p>	<p>ATAL2016-130 - Precipitation of Mixed ZirconiumIV : CeriumIV Molybdate in Nitric Acid Margot NADOLNY (CEA Marcoule, France)</p>	<p>ATAL2016-041 - A study of the gamma-radiolysis of di-dodecyl di-octyl diglycolamide using UHPLC-MS analysis Andreas WILDEN (Forschungszentrum Jülich GmbH, Germany)</p>
11:20	<p>ATAL2016-065 - Solvent extraction investigations on Th and Pu(IV) complexes with hydrophilic SO₃-Ph-BTP and SO₃-Ph-BTBP ligands Jerzy NARBUTT (INCT, Poland)</p>	<p>ATAL2016-134 - Synthesis, Crystal Structure, Spectroscopic Characterizations of Americium Oxalate, Am₂(C₂O₄)₃(H₂O)₆·nH₂O; Comparison with the Ln series Christelle TAMAIN (CEA Marcoule, France)</p>	<p>ATAL2016-026 - Gamma-ray radiolysis of the monoamide DEHBA Christopher ZARZANA (Idaho National Laboratory, Usa)</p>
11:40	<p>ATAL2016-091 - On precipitation during the coalescence of reactive droplets Sophie CHARTON (CEA Marcoule, France)</p>	<p>ATAL2016-151 - Behavior of metallic aluminum and uranium in cement matrices Davide RODRIGUES (CNRS, France)</p>	<p>ATAL2016-015 - Gamma radiolysis of the highly selective ligands CyMe₄BTBP and CyMe₄BTPhen: Qualitative and quantitative investigation of radiolysis products Holger SCHMIDT (Forschungszentrum Jülich GmbH, Germany)</p>
12:00	<p>ATAL2016-236 - Extraction performance of monoamide extractants in pulsed columns Marc MONTUIR (CEA Marcoule, France)</p>		<p>ATAL2016-030 - Complexation of Cm(III) and Eu(III) with a novel i-SANEX/GANEX complexing agent Christoph WAGNER (KIT-INE, Germany)</p>

Wednesday, June 8th, 14h – 18h

14:00	<p>ATAL2016-062 - The separation of ²⁴¹Am from aged plutonium dioxide for use in radioisotope power systems using the AMPPEX process</p> <p>Mark SARFIELD (National Nuclear Laboratory, United kingdom)</p>	<p>ATAL2016-115 - Dissolution of U1-xThxO₂ solid solutions : effect of chemical composition on the evolving reactive surface area</p> <p>Nicolas DACHEUX (University of Montpellier, France)</p>	<p>ATAL2016-028 - Novel Diglycolamide Ligands for Minor Actinide Extraction from Acid Solutions</p> <p>Seraj ANSARI (Bhabha Atomic Research Centre, India)</p>
14:30	<p>ATAL2016-061 - Extraction and separation of lanthanides by organophosphorus acids</p> <p>Vladimir PETROV (Lomonosov MSU, Russia)</p>	<p>ATAL2016-096 - Dissolution Study of Thorium-Uranium Oxides in Aqueous Triflic Acid Solutions</p> <p>Ephraim BULEMELA (Canadian Nuclear Laboratories (CNL), Canada)</p>	<p>ATAL2016-226 - Determination of the structure of organic solutions by combining molecular dynamic simulation and experimental characterization</p> <p>Amaury PAQUET (CEA Marcoule, France)</p>
14:50	<p>ATAL2016-077 - Consolidation of the EXAM process : towards the reprocessing of a concentrated PUREX raffinate</p> <p>Vincent VANEL (CEA Marcoule, France)</p>	<p>ATAL2016-100 - The impact of HNO₂ in the kinetics of dissolution of uranium based oxides.</p> <p>Stéphanie SZENKNECT (ICSM, France)</p>	<p>ATAL2016-017 - Evaluation of covalence in An(III)- and Ln(III)-complexes by NMR Spectroscopy</p> <p>Christian ADAM (KIT-INE, Germany)</p>
15:10	<p>ATAL2016-264 - Innovative fibrous extracting materials for nuclear liquid waste decontamination.</p> <p>Ekatorina SHILOVA (AJELIS, France)</p>	<p>ATAL2016-114 - Characterization of insoluble sludge in dissolution of irradiated fast breeder reactor fuel</p> <p>Haruka AIHARA (Japan Atomic Energy Agency, Japan)</p>	<p>ATAL2016-034 - Extraction of Pd(II), Rh(III) and Ru(III) from Nitric Acid Solutions Using Thiodiglycolamides and Tertiary Amines</p> <p>Michal CIBULA (Tokyo Institute of Technology, Japan)</p>
15:30	COFFEE BREAK		
16:00	<p>ATAL2016-242 - Assessment of the anticipated improvement of the environmental footprint of future French nuclear energy systems</p> <p>Christophe POINSSOT (CEA Marcoule, France)</p>	<p>ATAL2016-123 - Dissolution of uranium dioxide in nitric medium. From microscopic phenomena to macroscopic models for dissolvers.</p> <p>Florence CHARLIER (CEA Marcoule, France)</p>	<p>ATAL2016-032 - Xenon Recovery from Molybdenum-99 Production</p> <p>Robert JUBIN (Oak Ridge National Laboratory, Usa)</p>
16:20	<p>ATAL2016-241 - Uranium - plutonium separation trials from spent nuclear fuel in CBP shielded cell</p> <p>Christian SOREL (CEA Marcoule, France)</p>	<p>ATAL2016-124 - Effect of the fission products on the kinetics of dissolution of uranium dioxide</p> <p>Théo CORDARA (CEA Marcoule, France)</p>	<p>ATAL2016-019 - Speciation of ruthenium in TBP/TPH organic phases (structure and reactivity)</p> <p>Claire LEFEBVRE (CEA Marcoule, France)</p>
16:40	<p>ATAL2016-229 - Actinides/lanthanides separation by TODGA in fluorinated diluent</p> <p>Mikhail ALYAPYSHEV (Khlopin Radium Institute, Russia)</p>	<p>ATAL2016-128 - Uranium dissolution in hyperalkaline TMA-OH solutions: Preliminary results</p> <p>Christelle CACHOIR (SCK-CEN, Belgium)</p>	<p>ATAL2016-020 - Actinide organometallic complexes bearing Cp ligands</p> <p>Olaf WALTER (JRC-ITU, Germany)</p>
17:00	<p>ATAL2016-233 - Extraction modeling of H₂O/HNO₃/UO₂(NO₃)₂ with tri-n-butylphosphate</p> <p>Solenne MICHAUD (CEA Marcoule, France)</p>	<p>ATAL2016-132 - Synthesis and dissolution of uranium dioxide with different morphologies</p> <p>Yannis ZIOUANE (CEA Marcoule, France)</p>	<p>ATAL2016-021 - Interaction and Effect of the Complexation of Actinides by a Protein: the Calmodulin</p> <p>Florian BRULFERT (IPNO, France)</p>
17:20		<p>ATAL2016-136 - Kinetics and Thermodynamics of the monazite dissolution</p> <p>Clemence GAUSSE (ICSM, France)</p>	<p>ATAL2016-035 - Ruthenium Release from Thermally Overheated Nitric Acid Solution Containing Ruthenium Nitrosyl Nitrate and Sodium Nitrate to Solidify</p> <p>Youichi ENOKIDA (Nagoya University, Japan)</p>

CONFERENCE DINNER

Departure by bus from the Corum at 18h

Thursday, June 9th, 9h – 12h30

9:00	<p>ATAL2016-079 - USED MIXED OXIDE FUEL REPROCESSING AT RT-1 PLANT Andrei SHADRIN (ITCP, Russia)</p>	<p>ATAL2016-046 - New Insights Into The Mechanism Of Uranium Extraction From Phosphate Ores Dominique GUILLAUMONT (CEA Marcoule, France)</p>	<p>ATAL2016-025 - The radiolysis of CMPO: effects of acid, metal complexation and alpha vs. gamma radiation Bruce MINCHER (Idaho National Laboratory, Usa)</p>
9:30	<p>ATAL2016-049 - Flow-sheet Study for MA Recovery by Extraction Chromatography in SmART Cycle Project Sou WATANABE (Japan Atomic Energy Agency, Japan)</p>	<p>ATAL2016-044 - Understanding of uranium extraction mechanisms from phosphoric and sulfuric media using DEHCNPB. Boris FRIES (CEA Marcoule, France)</p>	<p>ATAL2016-013 - Investigation under ionizing radiation of An-ligand complexes in solution by electrospray ionization mass spectrometry Laurence BERTHON (CEA Marcoule, France)</p>
9:50	<p>ATAL2016-080 - Hybrid Materials for Selective Separation of Actinides Jessica VELISCEK CAROLAN (ANSTO, Australia)</p>	<p>ATAL2016-047 - Extraction of Radioactive and Non-Radioactive Constituents from Tailings Resulting from Processing High-Grade Uranium Ore Hagen gunther JUNG (NUKEM Technologies Engineering Service, Germany)</p>	<p>ATAL2016-223 - Ab-initio simulations in stability studies Tomas KOUBSKY (CTU in Prague, Czech republic)</p>
10:10	<p>ATAL2016-087 - Development of selective adsorbent and processes applied for decontamination of nuclear liquid wastes. Agnès GRANDJEAN (CEA Marcoule, France)</p>	<p>ATAL2016-055 - Hybrid Mesoporous Silicas Design For Uranium Extraction From Sulfuric Media Alexandre CHARLOT (CEA Marcoule, France)</p>	<p>ATAL2016-014 - Effects of gamma irradiation on innovative stripping solvents for i-SANEX/GANEX processes Eros MOSSINI (Politecnico di Milano, Italy)</p>
10:30	COFFEE BREAK		
11:00	<p>ATAL2016-081 - Photonic lab-on-a-chip for precipitation studies in hydrometallurgical processes Sophie CHARTON (CEA Marcoule, France)</p>	<p>ATAL2016-138 - Structural characterisation of MOX fuel and its interaction with lead-bismuth eutectic coolant Jean-François VIGIER (JRC-ITU, Germany)</p>	<p>ATAL2016-024 - The chemistry of separations ligand degradation by organic radical cations Stephen MEZYK (California State University at Long Beach, Usa)</p>
11:20	<p>ATAL2016-220 - Effect of sludge behavior on performance of centrifugal contactor Atsushi SAKAMOTO (Japan Atomic Energy Agency, Japan)</p>	<p>ATAL2016-140 - Carbon 14 distribution in irradiated BWR fuel cladding and released carbon 14 after 6.5 years aqueous immersion Tomofumi SAKURAGI (Radioactive Waste Management Funding..., Japan)</p>	<p>ATAL2016-059 - An(III) and Ln(III) complexation with TPAEN: selectivity quantification for an americium(III) separation process Nathalie BOUBALS (CEA Marcoule, France)</p>
11:40	<p>ATAL2016-195 - Microfluidic Systems for Radiochemistry: Synthesis and Functionalization of Polymer Monoliths for Chromatographic Separation of U and Eu Marion LOSNO (CEA Marcoule, France)</p>	<p>ATAL2016-146 - HT-ESEM Study of MO₂ (M = Ce, Th) First Stage of Sintering : Single Crystal vs Polycrystalline Systems Nicolas CLAVIER (ICSM, France)</p>	<p>ATAL2016-083 - Americium separation from alkaline media by substituted calix[4]arenes Igor SMIRNOV (Khlopin Radium institute, Russia)</p>
12:00	<p>ATAL2016-214 - Filtration Performance Test, an innovative lab scale device for nuclear needs Jean-pierre FERAUD (CEA Marcoule, France)</p>	<p>ATAL2016-164 - Storage of defective fuel pins in SFR core Dan-Tibrieriu COSTIN (Chalmers University of Technology, France)</p>	<p>ATAL2016-255 - Novel polydentate ligands for An(III)/Ln(III) separation: synthesis and extraction Leonid A. KOROTKOV (Lomonosov MSU, Russia)</p>

Thursday, June 9th, 14h-17h30

CLOSING SESSION

14h-15h30: Round table

Which R&D for a sustainable nuclear fuel cycle?

16h-17h10: Concluding lecture

17h10-17h30: Conclusion by the Chairman of the Conference

Friday, June 10th, 8h-17h30

VISITE of

the MARCOULE RESEARCH CENTRE

(Departure from and return to the Corum)

