

IGD-TP 6th Exchange Forum November 3-4th 2015, London, UK

November 3-4" 2015, London, UK Venue: The Thistle Marble Arch hotel

AGENDA DRAFT VERSION- 30/10/2015

Tuesday 3rd November 2015

Registration			
8:30 - 9:00	Registration		
Plenary Session1 - Jonathan Martin, RWM			
9:00 - 9:20	EF6 meeting objectives Monica Hammarström, IGD-TP Chair		
9:20 - 9:50	Key Note: Siting Process in UK Bruce Cairns (DECC)		
9:50 - 10:10	Key Note: H2020 WP 2016-2017 and future Euratom programmes Christophe Davies, European Commission, DG Research and Innovation, Fission Energy		
10:10 - 10:40	Key Note: Radiation Protection Research in Europe: Reaching out to IGD-TP Hildegarde Vandenhove, Nathalie Impens, SCK-CEN		
10:40 - 11:10	Coffee Break		
11:10 - 11:40	Key Note: NEA IGSC Interaction with the IGD-TP Lucy Bailey, RWM		
11:40 -12:10	Key Note: state of high-level waste disposal in the U.S. James Rubenstone, Yucca Mountain Directorate		
12:10 - 12:30	RD&D Planning Guide, Conclusion of the PLANDIS Workshop and future activities Ray Kowe, RWM		
12:30 - 12:35	Organisation of the parallel Sessions - Jacques Delay, IGD-TP Secretariat		
12:35	Lunch		

Parallel Sessions – Technical Working Groups Session		
14:00 - 15:40	Technical Working Groups - presentations and discussions - Rapporteurs WG	
15:40 - 16:00	Coffee Break	
16:00 - 17:30	Cont. Working Groups' presentations and discussions - Rapporteurs WG	





Parallel Sessions – Technical Working Groups Session (Cont.)				
09:00 -10:15	09:00 -10:15 Cont. Working Groups' presentations and discussions - Rapporteurs WG			
10:15 - 10:30	Conclusion WG session rapporteurs			
10:30 - 11:00	Coffee Break			
Session 2a : Chairman's and rapporteurs' commission session (Chairman & rapporteurs only) Session 2b : Technical session New H2020 technical projects - Walter Steininger				
11:00 - 12:00	, ,	11:00	MODERN2020 Johan Bertrand, Andra	
	discussion, draft of WG conclusions	11:20	CEBAMA Xavier Bourbon, Andra	
		11:40	MIND Birgitta Kalinowski, SKB	
Session 3: Evaluation of completed projects -Juan Carlos Mayor				
12:00 -12:25	PEBS - Annika Schäfers/Klaus-Jürgen Röhlig/Irina Gaus			
12:25 - 13:55	Lunch			
	Session 3: Evaluation of completed projects (cont.) - Tiina Jalonen			
13:55 - 14:20	FIRST Nuclides - B. Kienzler / Johan Andersson			
14:20 - 14:45	MODERN – Johan Bertrand/Frédéric Plas			
14:45 - 15:00	5:00 REDUPP - Lena Evins/ David Shoesmith / Johan Andersson			
	Session 4: Conclusion and	way forward	- Philippe Lalieux	
15:00 -15:15	Rapporteur WG1 - Novel thermal tre Cristiano Padovani and Amy Shelto		or waste	
15:15 - 15:30	Rapporteur WG2 - Bentonite homogenization Patrik Sellin, SKB			
15:30 - 16:00	Coffee break			
16:00 - 16:15	Rapporteur WG3 - Cement Organics Marcus Altmaier, KIT-INE	Radionuclid	le Interactions – (CORI)	
16:15 - 16:30	Pannortour WG4. Spont fuel dissolution & chemistry in container			
16:30 - 16:55	Conclusion & way forward for IGD-T Monica Hammarström, SKB, IGD-TP C		12020	
16:55 - 17:00	Closing IGD-TP 6 th Eychange Forum			
17:00	End of the EF6			





Parallel sessions – Technical Working Groups (TWGs)

TWG1 – Novel thermal treatments for high activity wastes

Rapporteurs: C. Padovani, A. Shelton

Programme

Tuesday 3rd November

14:00-14:10	Introduction C. Padovani, RWM
14:10-14:40	Collaboration on the Thermal Treatment of Waste, Anthony Banford, NNL
14:40-15:10	Novel Treatments to Improve Radioactive Waste Disposal, Laurence Petit, Andra
15:10-15:40	Application of Joule Heated Ceramic Melter (JHCM) Technology for Stabilization of Radioactive Wastes in the United States, Eric Smith, Energy Solutions
15:40-16:00	Coffee break
16:00-16:30	The Innovative Plasma Tilting Furnace for Industrial Treatment of Radioactive Waste, Jan Deckers, Belgoprocess
16:30-17:00	Title TBC, Neil Hyatt, University of Sheffield
17:00-17:30	Nano Flex HLW / Spent Fuel Rods Recycling and Permanent Disposal, Dimitre Assenov, Nano Flex HLW

9:00	Start of day 2
9:00-9:30	Geological Disposal of Silicon-rich Vitrified ILW Products in a Cement-based Engineered Barrier System: Addressing Key Uncertainties, Steve Swanton, AMEC-FW
9:30-9:55	Plasma Vitrification of Nuclear Waste, Mark Rogers, Costain
9:55-10:15	THOR and the Leachability of THOR Residues, Maria Lindberg, Studsvik
10:15-10:30	Conclusion WG session Rapporteur





TWG2 – Bentonite homogenization

Rapporteurs: P. Sellin - J.C. Mayor

Programme

Tuesday 3rd November

14:00 -14:10	Introduction - Patrik Sellin/Juan Carlos Mayor				
	Strategic issues: feedback to Design and Safety assessment				
14:10 -14:35	Proposal for a project focussed on bentonite homogenization – some examples of ongoing activities in the area – Patrik Sellin, SKB				
	Bentonite Homogenization: the safety relevance of the even distribution of bentonite buffer properties - Olivier Leupin, NAGRA, Switzerland				
14.10 14.00	Posiva's plans to assess bentonite homogenisation - Kari Koskinen, POSIVA, Finland				
	Development of a Design Basis for Bentonite Homogenization: Lessons from the DOPAS Project Applied to WG2 Bentonite Homogenization - Matt White, Galson Sciences Limited, UK				
14:35-15:00	Questions and discussion				
	Large and field scale experiments				
	Homogenization of bentonite plugs – what are the issues? - Jean Talandier, Andra, France				
	State of a barrier of bentonite blocks after 18 years of operation - María Victoria Villar, CIEMAT, Spain				
	Examples of Finland's experiments for assessing buffer-backfill-pellet homogenization and performance - Erika Holt, VTT, Finland				
15:00-15:35	Impact of the sand/bentonite homogenization on the performance of an EGTS - Niels Giroud, NAGRA, Switzerland				
	Geophysical monitoring of evolutions of buffer materials and EBS - Kristof Schuster, BGR, Germany				
	An impact of bentonite homogenization on its changes by degradation processes - Jiri Mikes, TERAMED s.r.o., Czech Republic				
15:40-16:00	Coffee break				
	Laboratory experiments				
	Understanding the homogenisation behaviour of bentonite - Jon Harrington, British Geological Survey, UK				
16:00-16:30	The Affect of Accessory Minerals on Bentonite Erosion Rates - Rebecca Lunn, University of Strathclyde, UK				
	Saturation and mechanical properties of clays with defined composition - Vaclava Havlova, UJV Rez, a.s., Czech Republic				
	Bentonite homogenization : Experimental contribution of CEA/LECBA - Claude Gatabin, CEA, France				
	Bentonite homogenization: laboratory tests to answer open questions related to the German disposal concept in claystone - Artur Meleshyn GRS Braunschweig, Germany				
16:30-17:30	Questions and discussion - End of day 1				





Wednesday 4th November

9:00	Start of the Day					
	Modelling - Conceptual model/ processes understanding					
	Bentonite homogenization: processes and modelling - Antonio Gens, Universitat Politecnica Catalunya, Spain					
	A Poroplastic Model of Structural Reorganisation in Porous Media - Gabriel Wittum TechSim, G-CSC, U Frankfurt Germany					
	Hydromechanical behaviour of bentonite under in situ conditions - Robert Charlier, University of Liege, Belgium					
9:00-9:40	Proposal for a project focussed on bentonite homogenization – some examples of ongoing activities in the area - Vasileios Mantikos, Imperial College London, UK					
	Constitutive mechanical modelling of bentonite behaviour in THEBES project - Markus Olin, VTT Technical Research Centre of Finland Ltd, Finland					
	SEALEX In-Situ Experiments-Performance Tests Of Repository Seals: Experimental observations and modelling - Nadia Mokni, IRSN, France					
	Relevance of hydrodynamic and hydrogeochemical reactions on buffer homogeneization- Javier Samper, University of A Coruña, Spain					
9:40-10:15	Questions and discussion					
10:15-10:30	Conclusion WG session Rapporteur					

Yellow = 10 minute presentation

Cyan = Questions and discussion





TWG3 - Cement Organics Radionuclide Interactions (CORI)

Rapporteurs: M. Altmaier – F. Plas

Programme

Tuesday 3rd November

	Introduction M. Altmaier, KIT- INE
	Overview of the outcome of the TSWG CORI "Cement Organics Radionuclide Interactions" - Marcus Altmaier, KIT-INE, Germany
	CORI-WP - WMOs priorities and expectations - Eric Giffaut Andra France
14:00 - 17:00	Degradation of organics - result of hydrolysis and radiolysis- Johan Vandenborre, SUBATECH, France
	Mobility of organics in cementitious environment and their interaction with Fe - Mireia Grivé, Amphos 21 Consulting, S.L., Spain
	CORI-Work Package on "Mobility of organics-RN complexes in a cementitious environment - Virginie Blin, CEA, France
	CORI: WP on "Modelling, upscaling, application to PA"- Vanessa Montoya, KIT-INE, Germany

9:00 – 10:30	0 Discussion	ion					
--------------	--------------	-----	--	--	--	--	--





TWG4 – Spent fuel dissolution & chemistry in container

Rapporteurs: L. Evins – J. Andersson

Programme

Tuesday 3rd November

14:00	Introduction Waste form and behaviour: Chemistry and dissolution in a high-level waste container - JA Leader: SKB (L.Z. Evins, J. Andersson)					
14:15	Leaching of doped irradiated fuel under H2 conditions, Studsvik (O. Roth)					
14:35	Dissolution rate of MOX and Cr-doped UO2 fuel, JRC-ITU (D. Wegen)					
14:55	Remaining questions after FIRST-Nuclides, KIT-INE (B. Kienzler)					
15:15	Thermodynamics as a support for the interpretation of spent fuel leaching experiments, PSI (E. Curti)					
15:40	Coffee break					
16:00	Simfuel approaches to understanding spent fuel behaviour, University of Cambridge (I. Farnan)					
16:20	UO2 interactions inside canister conditions, VTT (K. Ollila, E. Myllykylä)					
16 :30	Corrosion mechanisms of modern LWR-fuels using UO2-based model systems, FZ Jülich (D. Bosbach)					
16:40	Andra proposal for a future European project dealing with geochemical processes within a HLW/Spent fuel disposal cell, Andra (C. Martin)					
17:00 – 17:30	General Discussion					

09:00	Start & recap of 3 rd October
09:15	Project proposal preparations
10:00	Final discussion
10:15	Conclusion WG session, Rapporteurs
10:30	Coffee Break



