

## Joint ICTP-IAEA International School on Nuclear Waste Actinide Immobilization". 10-14.09.2018. Provisional Agenda

Time	Monday: OPENING. INTRODUCTION TO CERAMIC AND GLASS PROCESSING, AND ACTINIDE IMMOBILIZATION	Tuesday: RADIATION DAMAGE EFFECTS IN ACTINIDE-DOPED MATERIALS AND GLASSES	Wednesday: ACTINIDE BEHAVIOUR DURING SEVERE NUCLEAR ACCIDENT, AND DURING NUCLEAR TESTS	Thursday: ADVANCED MATERIALS BASED ON DURABLE ACTINIDE HOST-PHASES – NEW TYPES OF Pu FUELS AND TARGETS FOR ACTINIDE TRANSMUTATION	Friday: MODELLING OF ACTINIDE MIGRATION IN GEOLOGICAL – INTERACTION OF ACTINIDE WASTES AND GEOLOGICAL ENVIRONMENT
09.00 - 09.45	Introduction. <i>Organising committee:</i> M. Ojovan, B. Burakov, A. Scardicchio. WE Lee, F. Bart	Invited Lecture: Radiation damage in crystalline wasteforms <b>Maik Lang</b>	Invited Lecture: Actinide Behaviour during severe nuclear accident - Chernobyl <b>Boris Burakov</b>	Invited Lecture: Development of nuclear electric batteries based on durable actinide-doped crystals <b>Maria Zamoryanskaya</b>	Invited Lecture: Modelling of actinide migration in geological environment <b>Laurent De Windt</b>
09.45- 10.30	Invited lecture: Actinides Science <b>Ross Springell</b>	Invited lecture: Radiation damages in vitreous wasteforms <b>Christophe Jegou</b>	Invited lecture: Fission Product Behaviour under Light Water Reactor Sever Accident in the Light of Fukushima Dai-ichi NPS <b>Masahiko Osaka</b>	Invited Lecture: New types of Pu fuel and targets for actinide transmutation <b>Philippe Martin</b>	09:45- 10:00 Break
	Break	Break	Break	Break	10:00 - 10:45 Invited Lecture: Pu-loaded glasses and crystals: evolution due to self-irradiation <b>Andrey Shiryayev</b>
10.45 - 11.30	Invited Lecture: How to synthesize a good ceramic? – <b>William (Bill) E Lee</b>	Leach Behaviour of actinide-doped ceramics and glasses <b>Bella Zubekhina</b>	Invited Lecture: Actinide Behaviour during severe nuclear accident – TMI <b>Andriy Sizov</b>	Invited Lecture: Pu-loaded glasses and crystals: evolution due to self-irradiation <b>Andrey Shiryayev</b>	Invited Lecture: Actinide transfer in-situ of geological formations: mineral-chemical and isotope-geochemical aspects <b>Vladislav A. Petrov</b>
11.30 - 12.00	Invited lecture: How to synthesize a good glass? – <b>Florence Bart</b>	Open Discussion: Leach Behaviour of actinide-doped ceramics and glasses: approaches and methods to work with radioactive materials <b>B. Burakov</b>	Invited Lecture: Isotopic composition of plutonium in the Arctic Seas and identification of the sources of contamination <b>Andrey Stepanov</b>	Invited Lecture: Accident tolerant fuels <b>Simon Middelburgh</b>	<div data-bbox="1702 829 2184 1093" data-label="Image"> </div>
12.00 - 12:30	Open Discussion I: How to immobilize actinides? <b>B. Burakov, WE Lee, M Ojovan</b>				
	Lunch	Lunch	Lunch	Lunch	
13.30- 14.15	Open Discussion II: How to immobilize actinides? <b>B. Burakov, WE Lee, M Ojovan</b>	Invited Lecture: Leach behaviour of Spent Fuel, Actinides-doped materials <b>Christophe Jegou</b>	Invited Lecture: Raman characterization of corium <b>Sandrine Miro</b>	Current Scenario of nuclear waste management programs in India. <b>Saurabh Kr. Sharma</b> . Tailor made ceramics for fixing nuclear waste forms: Synthesis and structural characterization. <b>Numai Pathak (INDIA)</b> . Micro-structural analysis & radiation stability studies in undoped and cerium doped zirconolite. <b>Kaur Rajveer</b> .	
14.15- 15.00	Invited lecture: Fundamentals of radiation damage <b>M. Rushton</b>	Invited lecture: Leach behaviour of Corium <b>Daniel Serrano-Purroy</b>	Understanding the Effectiveness of Plutonium Surrogates for Waste and Stockpile Immobilisation. <b>Lewis Blackburn (UK)</b> . The role of nuclear material characterisation laboratory in		

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			the radioactive waste research. <b>Fabio Girardi (ITALY)</b> .	
	Break	Break	Break	Break
15.15-15.35	Self-growing crystals with Pu238 – <b>Iulia Ipatova</b>	Invited lecture: Corrosion Behaviour of Glass <b>John Vienna</b>	The effect of composition on chemical properties of borosilicate glasses containing potassium oxide. <b>Zohreh Hamnabard</b> , Vitrification in Iran <b>Amir Charkhi</b> , Fundamentals of vitrification of nuclear waste. <b>Sareh Amari Allahyari (IRAN)</b> .	Structural response of zirconolite-type compositions on swift heavy ion irradiation. <b>Gupta Merry</b> . High Level radioactive waste treatment in India. <b>Asha (INDIA)</b> . Nuclear Waste: Thorium fuel Vs. Uranium fuel. <b>Elsalamouny Noura (EGYPT)</b> .
15.35-16.00	Self-growing ceramics with Pu238 – <b>Oxana Bogdanova</b>	Lunch	Lunch	Lunch
16.00-17.00	Introducing of each participant by him(her)-self	The CERUS project in the Argentina's back-end strategy for the research reactor spent fuel. <b>Ariel Chaves</b> . Immobilization of simulated nuclear wastes in yttrium aluminosilicate glass. <b>Diana Lago. (ARGENTINA)</b> . Natural analogues of actinide ceramic waste forms. <b>Quixiang Cao (CHINA)</b>	Invited Lecture: Raman characterization of corium <b>Sandrine Miro</b>	Temperature Dependent Radiation Stability of Pyrochlore Under Swift Ion Irradiation <b>Saurabh Kr. Sharma</b> . Tailor made ceramics for fixing nuclear waste forms: Synthesis and structural characterization. <b>Numai Pathak (INDIA)</b> . Micro-structural analysis & radiation stability studies in undoped and cerium doped zirconolite. <b>Kaur Rajveer</b> .
18.00	Social event			