

## WP4 – Autumn Workshop Friday November 24, 2023

### Agenda

#### IJCLAB - Orsay (France) and Online

#### Introduction

9:25-9:30 Welcome Address, WP4 Scope and objectives

*Abdesselam Abdelouas & Tomo Suzuki, IMT Atlantique, France*

#### Task 4.4: Development and optimisation of decontamination processes

9:30-9:50 Preparation, characterization and decontamination of oxidized stainless steel surfaces

*Anne Callow & Thomas Carey, NLL, The United Kingdom*

9:50-10:10 Optimisation of chemical decontamination of stainless steel and Ni-alloys and treatment of resulting radioactive effluents

*Mathurin Robin & Aditya Rivonkar, IMT Atlantique, France*

10:10-10:30 Improvement of decontamination gel efficiency on oxidized stainless steel surfaces

*Alban Gossard, CEA, France*

10:30-10:50 Demonstration of the removal of elements of interest from the contaminated corrosion layer using electrochemical separation

*Martin Straka, ÚJV Řež, Czech Republic*

*10:50-11:10 Coffee/Tea Break*

11:10-11:30 Enhancing radionuclide extraction by using ionic liquids

*Kateřina Čubová, CTU, Czech Republic*

#### Task 4.5: Optimisation of metallic waste characterisation and procedures for waste minimisation and recycling

11:30-11:50 A non-destructive gamma spectrometry set-up for characterization of low-activity metallic segments after dismantling with low measurement uncertainty

*Dimitrios Mavrikis, NCSR, Greece*

11:50-12:10 Comparison of Real and Generated by MCNP Simulation Spectra for Radiological Characterization of Nuclear Components and Metallic Waste

*Angelos Markopoulos, NCSR, Greece*

12:10-12:30 Development of new radiochemical procedures for DTM radionuclides

*Tomo Suzuki, IMT Atlantique, France*

*12:30 -13:30 Lunch break*

#### Task 4.6: Encapsulation of reactive metals in magnesium phosphate cement-based matrices

13:30 -13:35 Task 6 scope and objectives.

*Céline Cannes, IJCLab, France*

13:35-13:55 Development of magnesium phosphate cement formulations.



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*Raul Fernandez, UAM, Spain*

13:55-14:15 Cost optimization of magnesium phosphate cement formulations

*Lavinia Stefan, ORANO, France*

14:15-14:35 Leaching behavior of magnesium phosphate cements

*Céline Cau Dit Coumes, CEA, France*

14:35-14:55 Irradiation behavior of magnesium phosphate cements

*Ilaria Moschetti, IMT Atlantique, France & Polimi, Italy*

*14:55 - 15:15 Coffee/Tea break*

15:15-15:35 Corrosion of Al in magnesium phosphate cements

*Carla Fernandez, CSIC, Spain*

15:35-15:55 Corrosion of steel in magnesium phosphate cements

*Kim Le, CNRS-IJCLab, France*

15:55-16:15 Corrosion of beryllium in magnesium phosphate cements

*Sébastien Caes, SCK-CEN, Belgium*

### **Task 4.3:** Defining Europe-wide Needs and Opportunities for Management of Metallic Waste Streams (GSL)

16:15-16:30 Preparations for WP4 Value Assessment Workshop and Task 3 Synthesis Report

*Jenny Kent, GSL, The United Kingdom*

16:30-17:00 Discussions, deliverables, etc.

17:00 Wrap-up and Adjourn