

Program of ESNII+ European workshop on
Coolant Quality Control, Physico-Chemistry & Dosimetry
 ÚJV Řež, a. s., October 5-7, 2016

Day 1 (October 5, 2016)

13-10 Registration

Session 1: Introduction

Time	Title	Lecturer	Organization
13-30	Welcome ESNII+ WP5; introduction of Seminar	C. Latgé	CEA
13-50	Introduction of UJV (organization who welcomes W6)	M. Patrik (tbc)	UJV

Session 2: Introduction to Fast Reactors systems (focusing on this topical Seminar)

14-10	Introduction to ALLEGRO (GFR)	L. Bělovský	UJV
14-30	Introduction to ALFRED (LFR)	(lecturer tbc)	ANSALDO
14-50	Introduction to MYRRHA (LBEFR)	(lecturer tbc)	SCK-CEN
15-10	Introduction to ASTRID (SFR)	C. Latgé	CEA
15-30	Discussion	All	

15-50 Coffee break

Session 3: Coolant physico-chemistry and instrumentation

16-10	SFR: Sodium quality control (source terms, quality control, instrumentation)	C. Latgé	CEA
16-30	LFR: Chemistry of liquid lead alloys (source of impurities, instrumentations for control)	S. Bassini	ENEA
16-50	Monitoring of oxygen impurity in HLMS with potentiometric sensors	S. Bassini	ENEA
17-10	Discussion	All	

17-30 End of the first day

Day 2 (October 6, 2016)

Session 4: Radio-nuclides: sources, mass transfer

08-40	Radio-nuclides sources & mass transfer in SFR	L. Brissonneau	CEA
09-00	Sources of impurities and mass transfer in HLM (Lead and LBE)	A. Aerts	SCK-Mol
09-20	Radio-nuclides sources & mass transfer in SFR: Activated corrosion products: Modeling	L. Brissonneau	CEA
09-40	Chemistry of radionuclides in HLM systems	A. Aerts	SCK-CEN

10-00 Coffee break

10:20	Feedback on radionuclides from MEGAPIE	(tbc)	PSI (tbc)
10-40	Tritium production, inventory, release control, modeling	Th. Gilardi	CEA
11:00	Discussion	All	

Time	Title	Lecturer	Organization
Session 5: Impurities removal			
11-20	GFR: Purification methods applicable for primary helium	T. Hudský et al	CVR-VSCHT- UJV
11-40	GFR/ALLEGRO: Removal of Xe and Kr from primary helium	M. Janák, V. Paučová et al	VSCHT-CVR- UJV
12-10	Lunch		
13-40	Visit of CV Řež facilities		
15:20	Impurities removal in SFR (cold traps, getters...)	C. Latgé	CEA
15:40	HLM chemistry control and purification: Considerations on oxygen control and purification system implementation	J. Lim	SCK Mol
16:00	Coffee break		
16:20	Modeling of nucleation and growth of oxides in LBE by CFD for the design of cold trap filtering systems	K. Gladinez	SCK-CEN
16-40	Discussion	All	
17:00	End of the second day		
19:30	Dinner (Prague downtown)		
Day 3 (October 7, 2016)			
Session 6: Cleaning and decontamination, Other			
09:40	Cleaning and decontamination in SFR	L. Brissonneau	CEA/EDF
10:00	Cleaning of components of HLM facility".	S. Bassini	ENEA
10:20	Coffee break		
11:00	Regeneration of helium from GFR guard vessel atmosphere.	J. Dymáčková, J. Berka et al	CVR-UJV
11:20	Impurities induced corrosion of materials used in GFR/VHTR primary He coolant	D. Marušíková	CVR
11:40	Discussion	All	
12:00	Panel - Perspectives in R&D	Panelist	
12:30	Conclusions	C. Latgé, L. Bělovský	CEA, UJV
12:45	End of the Seminar		