

Agenda of the PUMMA Workshop on

Fuel qualification and code validation for advanced reactors: irradiation programs in MTR and SFR

Petten, Netherlands, 6-7 September 2022

Version N°5

Organizers:
JRC, NRG

MS Teams link for remote participants:
[LINK](#)





Day 1 – 6 September 2022

Time	Presentations & Speakers	Lecturer	Organisation
08H45	<i>Arrival to Petten (mini bus from Alkmaar organized)</i>		
9H00	Welcome by the Host, Introduction and organization	C. Fazio <i>TbD</i>	JRC NRG
9H30	Presentation of PUMMA	N. Chauvin	CEA
Session 1 : Fuel qualification: need of experimental irradiations			
10H00	Basic expectations from fuel qualification: what needs to be known, what is missing?	C. Van Wert, J. Schmidt	NRC
10H30	How a MTR can contribute to fuel qualification, differences and complementarities between MTR/SFR	S. van Til	NRG
11H00-11H30	Break		
11H30	TRL Approach for FR fuel qualification and examples of past experiments in MTR	S. Bejaoui	CEA
12H00	Main JHR characteristics and experimental devices foreseen for SFR experiments	L. Ferry	CEA (JHR)
12H30 – 13H30	Lunch Break		
Session 2 : Link between irradiation programs, codes validation and fuel design			
13H30	Overview of tests of fuel for fast reactors (dedicated and integral irradiations) - PIE Caprix (MOX 45%Pu, fast spectrum, nominal conditions)	L. Fayette	CEA
14H00	- PIE Trabant 2 (MOX 45%Pu, thermal spectrum, nominal conditions)	S. Van Til	NRG
14H30	- PIE Trabant 1 (MOX 45%Pu, thermal spectrum, overpower conditions)	D. Staicu	JRC
15H00	Break		

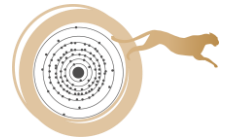


15H30	Irradiations for model validation - Experimental irradiations for fuel qualification and code validation	V. Blanc	CEA
16H00	- Modelling and Simulation of Nuclear Fuels	B. Michel	CEA
16H30	- Roles of Research Reactors in Methods Validation for Fuel Modeling	P. Van Uffelen	JRC
17H00	- Acceleration of experimental irradiations (devices and methodology)	J. Harp	ORNL
17H30 - 18H00	Presentations by Students		
18H00	Dinner and social event at Beach pavilion Sint Maartenszee		
21H00	<i>Departure from Petten (mini bus to Alkmaar organized)</i>		

Day 2 – 7 September 2022

Time	Presentations & Speakers	Lecturer	Organisation
08H45	<i>Arrival to Petten (mini bus from Alkmaar organized)</i>		
Session 2 (cont'd) : Link between irradiation programs, codes validation and fuel design			
09H00	Perspective from the industry and regulators. Feedback from the scenarios for the Pu management, what will be needed for the qualification.	R. Largenton, L. Argeles (TBC)	EDF
09H30	Session 3 : Fuels for plutonium or MA burning: Feedback from 30 years of irradiations on plutonium burning and minor actinides transmutation	E. d'Agata N. Chauvin	JRC CEA
10H00	Conclusions/Wrap-up session	N. Chauvin	CEA
11H30	Review of participation to visits		
12H00 – 13H00	Lunch Break		





13H00- 17H00	Visits at NRG and JRC according to prior registration: <ul style="list-style-type: none">- HFR control room and Hot Cells Lab (HCL) at NRG- plasma Focus Ion Beam, TRIAS, LILLA at JRC	
<hr/> <i>17H00 Departure from Petten (mini bus to Alkmaar organized)</i> <hr/>		