

Draft agenda

PuMMA Workshop on Fuel Properties

Bologna, Italy, 15-16 June 2023

SavHotel

Via Ferruccio Parri, 9, 40128 Bologna BO, Italia

Version N°4

Organized by:

Organised by ENEA (Alessandro Del Nevo, Pietro Arenas) JRC, (Dragos Staicu), CEA (Nathalie Chauvin), LGI (Mina Lazarevic, Mariana Terreros, Pauline Assadi)

For registration [link](#)

For further information contact:

mariana.terreroslozano@lgi.earth





Day 1 - Workshop on fuel properties, 15 June 2023 in Bologna

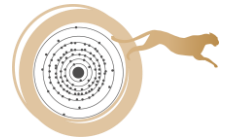
Welcome			
9h30	5 min	1.Welcome	A. Del Nevo (ENEA)
9h35	10min	2. Introduction	N. Chauvin (CEA)
9h45	30 min	3. MOX Fuel	
FPC : needs on fuel properties and model: summary of previous programs: Pellgrimm, inspire, esnii+, esfr-smart			
10h15	30 min	Overview of activities on fuel performance in the last 10 years	A. Magni (POLIMI)
10h45	30 min	Needs from FPC	T. Barani (CEA)
11h15	Coffee break (15 min)		
11h00	30 min	Impact on the results, feedback from benchmark exercises	V. Blanc (CEA), D. Jaramillo (POLIMI-ENEA)
Overview on knowledge : experimental device, data, theoretical approach, validated laws, effect of irradiation			
11h30	30 min	Lattice parameter	R. Caprani (CEA)-P. Martin(CEA)
12h00	30 min	Melting temperature	MM. Desagulier (CEA)
12h30	30 min	Heat capacity	<i>TBD</i>
13h	Lunch		
14h00	30 min	Thermal diffusivity and conductivity	M. Khafizov
14h30	30 min	Thermal expansion	<i>TBD</i>
15h	30 min	Oxygen potential /Thermodynamic properties / phase diagram	C. Gueneau (CEA)
15h30	Coffee break (20 min)		
15h50	30 min	Elastic properties	T. Saleh (LANL)
16h20	30 min	Non-elastic, thermodynamical data, diffusion	S. Elbez (CEA), B. Michel (CEA), A. Socié (CEA)
Experimental data on fuel properties, international framework			



16h50	30 min	Data base THERPRO	<i>TBD</i>
17h20	30 min	European programme & OECD activities on fuel properties	N. Chauvin (CEA), S. Dragos (JRC)
Conclusion day 1			
17h50	10 min		

Day 2 - Workshop on fuel properties, 16 June 2023 in Bologna

Welcome			
9h00	5 min	Welcome	
Experimental data on fuel properties, international framework			
9h05	30 min	Presentation of PhD Students and postdoc students	
9h35	30 min	Feed-back and future needs: devices, characterisations, experimental protocols, measurements	T. Pavlov (INL)
Fuel properties modelling (fresh and irradiated fuels)			
10h05	30 min	Theoretical approach	<i>TBD</i>
10h35	30 min	Mechanistic approach	P. Bonev
11h05	30 min	Atomistic approach	G. Porto
11h35	30 min	Implementation of properties models in fuel performance codes	L. Luzzi (Polimi)
12h05	25 min	Conclusion on needs	
Other fuels			
12h30	30 min	Nitride	J. Wallenius (KTH)
13h	Lunch		
14h00	30 min	Metal	<i>TBD</i>
14h30	30 min	Carbide	<i>TBD</i>



15h00	30 min	Effect of minor actinide on O, M, N, C fuels properties	T. Wiss
Conclusion			
15h30	30 min	Conclusions	All
16h00	Workshop is closed		