

MATTER - MATerials TESting and Rules

International Workshop on the “Key material properties for Myrrha and Astrid”

Rome, March 7-9th 2012

<u>Day 1: March 7th</u>		
<u>Plenary Session</u>		
10:00	Welcome	P. Agostini (ENEA)
10:15	General description of MYRRHA Irradiation Facility	S.Gavrilov (SCK-CEN)
10:45	General description of SFR Reactor	CEA or AREVA
11:15	Coffee break	
11:30	General description of ALFRED demonstrator	A.Alemberti(ANSALDO)
12:30	lunch	
<u>AFTERNOON</u>		
<u>Technical Panel:</u>		
13:30	- <i>Identification of key material issues for design of MYRRHA</i>	
	<i>Speaker: Serguei Gavrilov</i>	
	<i>Technical experts: Sophie Dubiez-le Goff, Karl Frederick Nilsson, Jarir AKTAA, Georg Mueller, Alessandro Alemberti</i>	
15:30	<i>Coffee break</i>	
15:45	- <i>Identification of key material issues for design of SFR</i>	
	<i>Speaker: Sophie Dubiez-le Goff</i>	
	<i>Technical experts: Serguei Gavrilov, Karl Frederick Nilsson, Jarir Aktaa, Georg Mueller, Alessandro Alemberti</i>	
18:00	adjourn	

Day 2: March 8th	
09:00 <u>MORNING</u>	
<u>Technical Sessions:</u>	
- <i>Materials database and design codes</i>	
<i>Moderator: Karl Frederick Nilsson</i>	
a. Database to support Design and Construction of Future Reactors.	
b. Presentation on treatment of creep-fatigue in codes and more advanced approaches	
- <i>Material damage at High-temperature</i>	
<i>Moderator: Jarir Aktaa</i>	
a. creep-fatigue	
b. ratcheting	
c. negligible creep	
d. Coolant-structures interaction	
- <i>Material compatibility with coolants and welding of Austenitic and Ferritic martensitic Cr-Mo grade steels</i>	
<i>Moderator: Georg Mueller</i>	
a. Corrosion, stress corrosion for the different kind of coolant: Na, HLM, water	
b. Fabrication and welding of austenitic and F/M steels	
c. Hard facing techniques to substitute Stellite™ : Hard Coating development.	
18:00	adjourn

Day 3: March 9th

09:30 MORNING

Final Synthesis and conclusions of the workshop

Conclusions of the two technical panels

Syntheses of the three technical sessions

Speakers:

M.Utili, Karl Frederick Nilsson, Jarir Aktaa, Georg Mueller

Chairman: Pietro Agostini

12:30	<i>Pietro Agostini - Conclusions and MATTER relevance</i>
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13:00	End of the workshop
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