

# GENERAL AGENDA

## 29 JUNE – 03 JULY 2015



### Monday, 29 June

08:30 – 09:00	• Registration of participants	
Opening Session		
09:00 – 09:30	• Welcome, opening remarks, agenda	Special Guest
Fast Reactors General I		
9:30 – 10:30	Fast reactor basic features <ul style="list-style-type: none"><li>- The physics of fast vs thermal neutrons</li><li>- Flexibility: breeding and/or burning for different missions in the fuel cycle</li></ul>	M. Salvatores
10:30 – 10:45	Coffee Break	
10:45 – 12:00	Global scenarios, accounting for the different world regions and their different needs. <ul style="list-style-type: none"><li>- Fast reactors as breeders in an expanding nuclear energy scenario</li><li>- Fast reactors as burners for waste management including P/T and advanced fuel cycles</li></ul>	M. Salvatores
12:00 – 14:00	Lunch Break	
14:00 – 15:00	Reactor physics issues Nuclear data and validation.	M. Salvatores
15:00 – 15:45	Fast reactor historical perspective	A. Vasile
15:45 – 16:00	Coffee Break	
16:00 – 17:00	Discussion on fast reactors general	All
17:00	End of Day 1	

### Wednesday, 01 July

Sodium-cooled Fast Reactors II		
9:00 – 10:30	Safety of SFR Specificities of the Fundamental of the safety functions <ul style="list-style-type: none"><li>- Reactivity control</li><li>- Decay Heat Removal</li><li>- Containment function (including barriers description)</li></ul> Risk inherent to the use of sodium <ul style="list-style-type: none"><li>- Sodium-air interaction</li><li>- Sodium water interaction</li><li>- Interaction between sodium and MOX fuel</li><li>- Sodium freezing</li></ul>	D. Blanc
10:30 – 10:45	Coffee Break	
10:45 – 11:30	Safety of SFR Accident sequences <ul style="list-style-type: none"><li>- Inadvertent control rod withdrawal</li><li>- Handling errors</li><li>- Fuel assemblies blockage</li><li>- Severe accident</li></ul> Environmental impact, radiation protection, decommissioning issues.	D. Blanc
11:30 – 12:00	Safety experience feedback from reactors operation.	D. Blanc
12:00 – 12:30	SFR Fuels – MOX/Metal Safety issues	T. Sofu
12:30 – 14:00	Lunch Break	
14:00 – 15:45	Materials and interactions with sodium	C. Latgé
15:45 – 16:00	Coffee Break	
16:00 – 17:15	ASTRID	A. Vasile
17:15	End of Day 3	

### Tuesday, 30 June

Fast Reactors General II		
09:00 – 10:30	Coolants for fast reactors: Sodium, Lead/Lead-Bismuth, Molten salt, Helium (1/2)	C. Latgé
10:30 – 10:45	Coffee Break	
10:45 – 12:45	Coolants for fast reactors: Sodium, Lead/Lead-Bismuth, Molten salt, Helium (2/2)	C. Latgé
12:45 – 14:00	Lunch Break	
Sodium-cooled Fast Reactors I		
14:00 – 15:30	SFR technology overview <ul style="list-style-type: none"><li>- Basic design choices on configurations (loop vs pool)</li><li>- Major systems and components (reactor core, core restraint system, reactivity control and shutdown systems, reactor vessel and guard vessel)</li><li>- Heat transport systems (primary, intermediate, balance of plant), decay heat removal</li><li>- Containment, I&amp;C</li></ul>	T. Sofu
15:30 – 15:45	Coffee Break	
15:45 – 16:30	Core design - Neutronics	A. Vasile
16:30 – 17:15	Core design - Thermalhydraulics	T. Sofu
17:15	End of Day 2	

### Thursday, 02 July

Lead-cooled Fast Reactors		
9:00 – 10:45	Main systems and components	A. Alemberti
10:45 – 11:00	Coffee Break	
11:00 – 12:30	Core design	A. Alemberti
12:30 – 14:00	Lunch Break	
14:00 – 14:30	Materials and interactions with lead	A. Alemberti
14:30 – 15:15	Safety analysis	A. Alemberti
15:15 – 15:45	A TSO view on LFRs	D. Blanc
15:45 – 16:00	Coffee Break	
16:00 – 17:15	ALFRED	A. Alemberti
17:15	End of Day 4	

### Friday, 03 July

International Programs		
9:00 – 9:30	IAEA TWG FR	S. Monti
9:30 – 10:00	IAEA INPRO	S. Monti
10:00 – 10:30	Gen IV	T. Sofu
10:30 – 11:00	ESNII	A. Vasile
11:00 – 11:15	Coffee Break	
Closing Session		
11:15 – 12:00	Conclusions	All experts
12:00	End of Seminar	