



# **Eighth Joint IAEA–GIF Technical Meeting/Workshop on the Safety of Liquid Metal Cooled Fast Reactors**

**IAEA Headquarters  
Vienna, Austria,  
Room C6 (7th Floor, C-Building)**

**20–22 March 2019**

**Ref. No.: EVT1703448**

**AGENDA**



Day 1, Wednesday, 20 March 2019				
Start	End	Topic	Speaker	Time
10:00	10:05	Welcome Address	Mr Dohee Hahn, IAEA	0:05
10:05	10:10	Opening remarks by GIF	Mr Hideki KAMIDE, GIF/Japan	0:05
10:10	10:20	Self-Introduction of the participants	All	0:10
10:20	10:25	Nomination of the Chairperson	All	0:05
10:25	10:30	Approval of the Agenda	All	0:05
10:30	10:30	<b>Session I: Updated SFR SDC/SDG and related activities</b>		0:00
10:30	11:15	Status of the GIF report on “Safety Design Guidelines on Safety Approach and Design Conditions for Generation IV SFR systems”	Mr Shigenobu Kubo, GIF/Japan	0:45
11:15	12:15	Status of the GIF report on “Safety Design Guidelines on Structures, Systems and Components for Gen-IV SFR Systems”	Mr Yasushi Okano, GIF/Japan	1:00
12:15	12:35	GIF R&D Infrastructures Needs & Gaps in support of LMFR safety	Mr Henri PAILLERE, Mr Nobuchika KAWASAKI, GIF/OECD	0:20
12:35	14:00	Lunch Break		1:25
14:00	14:30	IAEA activities on LMFR technologies	Mr Vladimir Kriventsev, IAEA	0:30
14:30	15:00	Title to be provided by NSNI	Mr Javier Yllera, IAEA	0:30
15:00	15:30	Conclusions: work programme for SDC/SDG	All	0:30
15:30	15:50	Coffee Break		0:20
15:50	15:50	<b>Session II: Licensing frameworks for advanced reactors and related activities</b>		0:00
15:50	16:15	IRSN’s activities on SFRs – 2013-2018	Mr Olivier Baudrand, IRSN, France	0:25
16:15	16:40	Presentation by regulatory bodies - Russia	Mr Nikolay Khrennikov, Russia	0:25
16:40	17:05	Presentation by regulatory bodies (or design organizations?) -UK	Mr Richard Stainsby, UK	0:25
17:05	17:30	1. General and Technology Specific Design Criteria in RG 1.232 as they relate to Fast Reactors 2. U.S. Nuclear Regulatory Commission’s Preparation Activities for Non-Light Water Reactor Licensing	Mr Imtiaz K. Madni, Ms Jan Mazza, NRC, USA	0:25
17:30	18:00	Discussion on Session II/Other presentations		0:30
18:00		<b>End of Day 1</b>		



Day 2, Thursday, 21 March 2019				
Start	End	Topic	Speaker	Time
9:30	9:30	<b>Session III: Safety features of Innovative Design Concepts</b>		0:00
9:30	10:00	Status and prospects of China sodium-cooled fast reactor	Mr Dongxing HUANG, Yizhe LIU, CAEA, China	0:30
10:00	10:30	Emerging Safety Considerations of Future SFRs and Few Case Studies	Mr Pillai Puthiyavinayagam, India	0:30
10:30	10:50	Coffee Break		0:20
10:50	11:35	(1) Basic new safety options studied in the ESFR SMART project (2) Organization of the pit in the ESFR SMART project allowing the safety vessel suppression	Mr Joel Guidez,CEA, France	0:45
11:35	12:00	Update on Safety Considerations for ESFR	Mr Haileyesus Tsige-Tamirat, EC	0:25
12:00	12:45	(1) Safety Oriented design approach (B. Carlucc); (2) ASTRID Code Design: Safety by Design Application (JM Ruggieri); (3) Reactor safety options (B. Carlucc).	Mr Bernard Carlucc, Mr Jean-Michel RUGGIERI, France	0:45
12:45	14:30	<b>Lunch Break</b>		1:45
14:30	14:55	Inherent and passive safety design features of PGSFR	Mr Seok-Hun Kang, Rep. of Korea	0:25
14:55	15:20	Safety Features of the TerraPower Traveling Wave Reactor	Mr Eric Williams, USA	0:25
15:20	15:40	Coffee Break		0:20
15:40	15:40	<b>Session IV: Status of Lead Cooled Fast Reactors and Innovative Design Concepts</b>		0:00
15:40	16:05	GIF-LFR-pSSC: Current status of LFR development	Mr Alessandro Alemberti, GIF/Italy	0:25
16:05	16:30	Safety features of the ALFRED design	Mr Alessandro Alemberti, GIF LFR-SSC, Italy	0:25
16:30	16:55	LFR Conceptual Design and Key Technology R&D Progress in SPICRI	Ms Mian Xing, China	0:25
16:55	17:25	Current state of development and justification of fast neutron reactor with lead coolant BREST-OD-300	Mr Andrei Moiseev, Russia	0:30
17:25	17:50	Safety Aspects of LFR Demonstrator Implementation Process in Romania	Mr Marin Constantin, Romania	0:25
17:50		<b>End of Day 2</b>		
18:30		Welcome Reception		



Day 3, Friday, 22 March 2019				
Start	End	Topic	Speaker	Time
9:30	9:30	<b>Session IV: Closing Session</b>		0:00
9:30	10:00	Safety Design Aspects of future LMFRs	Mr Shigenobu Kubo, JAEA/Japan	0:30
10:00	10:30	Discussion for future activities on LMFR Safety	All	0:30
10:30	11:10	Final discussion and conclusions	All	0:40
11:10	11:50	Drafting of Meeting report, recommendations and future actions	Session Chair All	0:40
11:50	12:00	Closing Remarks	Ms Cornelia Spitzer, IAEA	0:10
12:00		<b>End of Day 3</b>		

### List of Participants

Name	Country	Organization
Mr Dongxing Huang	China	CAEA
Ms Mian Xing	China	SPICRI
Mr Linsen Li	China	SPICRI
Mr Jean-Michel Ruggieri	France	CEA
Mr Olivier Baudrand	France	IRSN
Ms Stephane Beils	France	Framatome
Mr Bernard Carlucc	France	Framatome
Mr Andrei Rineiski	Germany	KIT
Mr Pillai Puthiyavinayagam	India	IGCAR
Mr Alessandro Alemberti	Italy	Ansaldo Nucleare
Mr Yasushi Okano	Japan	JAEA
Mr Hideki Kamide	Japan	JAEA
Mr Shigenobu Kubo	Japan	JAEA
Mr Nobuchika Kawasaki	Japan	JAEA
Mr Tae-Ho LEE	Korea, Rep. of	KAERI
Mr Seok Hun Kang	Korea, Rep. of	KAERI
Mr Marin Constantin	Romania	RATEN ICN
Mr Nikolay Khrennikov	Russia	SEC NRS
Mr Andrei Moiseev	Russia	NIKIET
Mr Ruben Mukhamadeev	Russia	IPPE
Mr Richard Stainsby	UK	Wood Nuclear
Mr Imtiaz Madini	USA	USNRC
Mr Eric Williams	USA	TerraPower
Mr Henri Paillere	OECD	NEA
Mr Haileyesus Tsige-Tamirat	EC	JRC



## IAEA

<i>Name</i>		
<i>Mr Vladimir Kriventsev</i>	Scientific Secretary	NPTDS
<i>Mr Javier Yllera</i>	Scientific Secretary	NSNI
<i>Mr Chirayu Batra</i>	Co-Scientific Secretary	NPTDS
<i>Mr Dohee Hahn</i>	Director	NENP
<i>Mr Stefano Monti</i>	Section Head	NPTDS
<i>Ms Cornelia Spitzer</i>	Section Head	NSNI
<i>Mr Jon Phillips</i>	Section Head	INPRO
<i>Ms Tatjana Jevremovic</i>	Team Leader	NPTDS
<i>Mr Frederik Reitsma</i>	Team Leader	NPTDS
<i>Mr Muzammal Hussain</i>	Consultant	NPTDS
<i>Mr Gerardo Martinez-Guridi</i>	Nuclear Engineer	NPTDS
<i>Ms Jiwon Choe</i>	Intern	NPTDS
<i>Mr Cole Takasugi</i>	Intern	NPTDS
<i>Mr Gustavo Pereira</i>	Intern	NPTDS
<i>Mr Michail Gryntakis</i>	Intern	NPTDS

## Administrative Support

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