

AGENDA

International Workshop on Prevention and Mitigation of Severe Accidents in Sodium-cooled Fast Reactors

11th -13th June, 2012 in Tsuruga, JAPAN

Monday, 11 June

Technical Tour to Monju (optional) [12:45 meet at Tsuruga JR Station]

Tuesday, 12 June 9:00-12:00 (The Wakasa Wan Energy Research Center)

Opening [Facilitator: Mr. Yutaka Sagayama (JAEA)]

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|-------------|-----------------|-----------------------------------|
| 9:00 - 9:05 | Welcome address | Mr. Atsuyuki Suzuki (Japan/JAEA) |
| 9:05 - 9:15 | Opening remarks | Mr. Yonezo Tsujikura (Japan/JAEA) |

Keynote speeches

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| 9:15 - 9:30 | Mr. Alexander Bychkov (IAEA) | |
| | | “Fast Reactors and Closed Fuel Cycle: Safe Technologies and Sustainability” |
| 9:30 - 9:45 | Mr. David Hill (US/INL) | |
| | | “SFR Safety Approach in the United States” |
| 9:45 - 10:00 | Mr. Francois Gauche (France/CEA) | |
| | | “Advanced Sodium Technological Reactor for Industrial Demonstration, - THE ASTRID PROJECT-, Status, Collaborations, Lessons from Fukushima Accident” |
| 10:00 - 10:15 | Ms. Marie-Pierre Comets (France/ASN) | |
| | | “Gen IV: a necessary step forward in safety compared to Gen III” |
| 10:15 - 10:30 | Mr. Thomas A. Kevern (US/NRC) | |
| | | “Regulatory Update on Advanced Reactors” |
| 10:30 - 10:45 | Mr. Hiroshi Ikukawa (Japan/MEXT) | |
| | | “Current Status of Nuclear Policy and FBR R&D in Japan” |

Coffee break (10:45 – 11:00)

Status report [Facilitator: Mr. Satoru Kondo (Japan/JAEA)]

11:00 - 11:15 Mr. Stefano Monti (IAEA),

“Overview of IAEA Activities in Support of SFR Development and Deployment”

11:15 - 11:30 Mr. Iurii Ashurko (Russian Federation/IPPE)

“Status of SFR Development in Russia”

11:30 - 11:45 Mr. Perumal Chellapandi (India/IGCAR)

“Overview of Indian FBR Programme” and

Mr. Prabhat Kumar (India/BHAVINI)

“Proposed Activities at PFBR in the Wake of Fukushima Accident”

11:45 - 12:00 Mr. Donghui Zhang (China/CIAE)

“Status of China National SFR Program”

12:00 - 12:15 Mr. Yeong-il Kim (Korea/KAERI)

“Status of SFR Development in Korea”

12:15 - 12:30 Mr. Bruno Rudi Merk (Germany/HZDR)

“German SFR Research and European Sodium Fast Reactor Project”

Lunch (12:30 - 13:30)

Technical Sessions

Session I: Safety Approaches of SFR system [Facilitator: Prof. Yoshio Kani (Japan/Tokai-U), Mr. Tanju Sofu (US/ANL)]

I-1. Safety Approach and Basic Safety Characteristics of SFR

13:30 - 14:00 Mr. Ryodai Nakai (Japan/JAEA)

“Safety Approach based on Basic Safety Characteristics of SFR - Harmonization of Safety Design Criteria -“

I-2. Severe Accident Countermeasures of SFR

14:00 - 14:30 Mr. Bernard Carlucci (France/AREVA/CEA/EDF)

“Severe Accident Countermeasures of SFR”

14:30 - 15:00 Mr. Iurii Shvetsov (Russia/IPPE)

“Russian Safety Approach for NPPs with SFR”

Coffee break (15:00 - 15:30)

15:30 - 16:00 Mr. Tanju Sofu (US/ANL)

“U.S. Approach for Inherent Prevention and Mitigation of SFR Severe Accidents”

16:00 - 16:30 Mr. Karuppanna Velusamy (India/IGCAR)

“Evolution and Assessment of Core Disruptive Accident Scenarios in SFR: From PFBR to CFBR”

16:30 - 17:30 Mr. Shigenobu Kubo (Japan/JAEA)

“Safety design approach featuring Severe accident countermeasures for GEN-IV SFR - JSFR Approach –” and

Mr. Mamoru Konomura (Japan/JAEA)

“Severe Accident Countermeasures of SFR (on Monju)”

Banquet (18:30 - 20:30) New Sunpia TSURUGA

Wednesday, 13 June (The Wakasa Wan Energy Research Center)

Session II: Technology Gaps and R&D Needs on Severe Accidents in SFR

[Facilitator: Prof. Koji Morita (Japan/Kyushu-U), Mr. Iurii Ashurko (Russia/IPPE)]

II-1. R&D programmes related to Severe Accident in SFR

9:00 - 9:40 Mr. Yoshiharu Tobita and Mr. Hideki Kamide (Japan/JAEA)

“R&D on Severe Accidents in SFR - Approach toward GEN-IV SFR in JAEA -“

9:40 - 10:00 Mr. Nicolas Devictor (France/CEA/EDF/AREVA)

“R&D Programmes Related to Severe Accident in SFR”

10:00 - 10:20 Mr. Mitchell T. Farmer (US/ANL/SNL)

“U.S. Perspective on Technology Gaps and R&D Needs for SFRs”

10:20 - 10:40 Mr. Perumal Chellapandi (India/IGCAR)

“R&D Highlights Towards Severe Accident Investigations”

Coffee break (10:50 - 11:10)

11:10 - 11:30 Ms. Lixia Ren (China/CIAE)

“Severe accidents analysis in CEFR and technology gaps”

11:30 - 11:50 Mr. Seok Hun Kang (Korea/KAERI)

“Current Status of Severe Accident Analysis for Korean Sodium-cooled Fast Reactor”

11:50 - 12:10 Mr. Iurii Ashurko (Russia/IPPE)

"Planning Experimental Studies on Modeling Phenomena Occurring under Severe Accidents in SFR"

Lunch (12:20 - 13:20)

Session III: Panel discussion 13:20 - 14:50

Topics:

- Direction for enhancing SFR safety
- Safety approaches of the SFR system against severe accidents
- Essential roles of the existing SFRs such as Monju for improving the safety of future SFRs

Facilitator: Prof. T. Takeda (Japan/Fukui-U), Mr. Stefano Monti (IAEA)

Panelist:

Mr. Satoru Kondo (Japan/JAEA)

“Current Status and Safety of Monju”

Mr. Yutaka Sagayama (GIF, Japan/JAEA)

“SFR Safety Design Criteria”

“Discussion Point in the International Workshop”

Mr. Tanju Sofu (US/ANL)

“Importance of Passive Safety and Role of Monju for the Future SFRs”

Mr. Nicolas DeVictor (France/CEA)

Mr. Prabhat Kumar (India/BHAVINI)

Mr. Donghui Zhang (China/CIAE)

Mr. Iurii Ashurko (Russia/IPPE)

Mr. Yeong-il Kim (Korea/KAERI)

14:50 - 14:55 Closing remarks, Mr. Yonezo Tsujikura (Japan/JAEA)

Closing of International Workshop

15:15 - 16:15 Internal meeting

Internal meeting by representatives will be held to establish key messages.

Venue: Meeting room (No.3)

Facilitator: Mr. Ryodai Nakai (Japan/JAEA), Mr. Stefano Monti (IAEA)

Participants: Mr. Alexander Bychkov (IAEA)

Mr. Tomas A Kevern (US/NRC)

Mr. David Hill (US/DOE)

Mr. François Gauche (France/CEA)

Mr. Iurii Ashurko (Russia/IPPE)

Mr. Yeong-il Kim (Korea/KAERI)

Mr. Donghui Zhang (China/CIAE)

Mr. Prabhat Kumar (India/BHAVINI)

Mr. Perumal Chellapand (India/IGCAR)

Mr. Bruno Merk (Germany/HZDR)

Mr. Yutaka Sagayama (GIF, Japan/JAEA)

Mr. Satoru Kondo (Japan/JAEA)

Adjourn the workshop

Press Conference

14th June, 2012 in Tokyo, JAPAN

9:30 – 9:33 Opening*

Mr. Yusuke Uehara, JAEA

9:33 - 9:43 Objective and introduction of the workshop

Mr. Yutaka Sagayama, JAEA

9:43 - 9:53 Message from the IAEA concerning idea and expectations for SFR safety and significance to support the workshop*

Mr. Alexander Bychkov, IAEA

9:53 - 10:23 High level message concerning basic idea for securing SFR safety in each country*

Representatives from each country (2min per country, France, Germany, India, Korea, Russia, US)

Mr. David Hill (US/DOE)

Mr. François Gauche (France/CEA)

Mr. Iurii Ashurko (Russia/IPPE)

Mr. Prabhat Kumar (India/BHAVINI)

Mr. Yeong-il Kim (Korea/KAERI)

Mr. Bruno Merk (Germany/HZDR)

10:23 - 10:30 Summary of key messages in the workshop

Mr. Yutaka Sagayama, JAEA

10:30 - 11:30 Q&A*

*Consecutive translation is provided in whole agenda except “objective and introduction of the workshop” and “summary of key messages in the workshop” from Mr. Sagayama.