

April 5, 2012

International Symposium
Envision the Future of Nuclear Science and Technology based on the Lessons
Learned from the Fukushima Daiichi Nuclear Power Station Accident

Nuclear Salon Fuji-ie

programme

April 11 & 12 Held in Tokyo: 'Tower Hall Funabori', this locates ca.10km east of the central Tokyo

April 13 Held at O-arai Research Center of JAEA, this locates ca. 130 km north of Tokyo

April 14 Visit to Onagawa NPP, this locates ca.320 km north of Tokyo

2012 April 11 (Tokyo, Funabori, Tower Hall Funabori 5th floor small hall) general chair: Kazumoto Ito

1. 09:00 – 10:00 Opening remarks chair: Masato Idesawa, Yasuhito Sasaki

1-1 Youichi Fuji-ie (Representative director, NPO Nuclear Salon Fuji-ie)

1-2 Chan, Sun-Kan (Chairman, Korea Nuclear Safety Committee)
(Park, Youn-Won (President, Korea Institute of Nuclear Safety))

1-3 Takaaki Kotani (O-arai town mayor, Ibaraki prefecture)

1-4 Keynote speech:
Gradual Transition of Civilization based on Chemical Reaction to That based on Nuclear Reaction
Youichi Fuji-ie (Representative director, NPO Nuclear Salon Fuji-ie)

2. 10:00– 10:30 Summary of the accident of Fukushima Daiichi Nuclear Power Station

chair: Masato Idesawa, Yasuhito Sasaki

2-1 Consideration on Fukushima accident from reactor engineering viewpoint
success path of evading from the reactor core meltdown
Keiji Miyazaki (professor emeritus of Osaka University)

<10:30–11:00 Coffee Break>

11:00–11:30

2-2 Countermeasures for Fukushima NPP crisis –aspects of radiological protection–

Yasuhito Sasaki (Japan Radioisotope Association, executive director)

3. 11:30 – 12:00 Current gap and future harmonization between nuclear safety and radiation safety

chair: Masato Idesawa, Yasuhito Sasaki

- 3-1 Lessons learned from the Fukushima Daiichi N.P.S. accident
Yoshihide Yamasaki (director, NPO Nuclear Salon Fuji-ie)

<12:00–13:00 Lunch>

13:00–14:00

- 3-2 Nuclear disaster and radiation protection
Kazuaki Kato (NPO Radiation Safety Forum, president)
- 3-3 Experiences at Fukushima Daiich Nuclear Power Plant accident and radiation effects on the human body
Kenji Kamiya (Director, Research Institute for Radiation Biology and Medicine, Hiroshima University Vice President, Fukushima Medical University)

4. 14:00–14:30 Future prospect of nuclear development

chair: Masato Idesawa, Yasuhito Sasaki

- 4-1 Sustainable nuclear energy system to harmonize resource security and environmental preservation
Masato Idesawa (director, NPO Nuclear Salon Fuji-ie)

<14:30–15:00 Coffee Break>

15:00–16:20

- 4-2 Significance of the nuclear fuel cycle and JNFL's roles
Kazuo Sakai (Japan Nuclear Fuel Ltd., director)
- 4-3 Fast Reactor
- (1) Japan: Fast Reactor development in Japan
Tsutomu Yanagisawa (Japan Atomic Energy Agency, fellow)
 - (2) India: Fast Reactor programme in India
S.C. Chetal (Indira Gandhi Center for Atomic Research, director)
 - (3) China: Development of Fast Reactors in China (tentative)
Yongjiang Li (China Nuclear Energy Association, vice chairman)

<Adjourn Funabori to Hitotsubashi>

<17:30-19:30 Reception> (Josui-kaikan , Hitotsubashi,Tokyo)

2012 April 12 (Tokyo,Funabori, **A.M.** Tower Hall Funabori 5th floor small hall **P.M.** 2nd floor,Zuiun room)

5. 09:00 - 10:20 Presentations by participating countries chair: Kazumoto Ito, Tetsurou Iwami

5-1 China: Progress of China's nuclear power plant and nuclear fuel cycle development, and the request for Japan (tentative)

Yongjiang Li (China Nuclear Energy Association, vice chairman)

5-2 Korea: What we learn and how to move forward in post-Fukushima era

Park, Youn-Won (Korea Institute of Nuclear Safety, president)

5-3 India: Nuclear power programme in India and expectations from Japan

Prabhat Kumar (Bhartiya Nabhikiya Vidyut Nigam Ltd., project director)

5-4 Kazakhstan: Infrastructure of atomic branch and prospects for nuclear energy development in the RK

Yergazy A. Kenzhin (National Nuclear Center of the Republic of Kazakhstan, deputy director general)

<10:20-10:30 Coffee Break >

10:30-11:25

5-5 Taiwan: Safety performance and post-Fukushima re-assessment of nuclear power plants in Taiwan

Yi-Bin Chen (Atomic Energy Council, dept. of Nuclear Regulation, director)

5-6 —

5-7 —

5-8 Japan: JAEA human resource development program for Asian countries

Hiroshi Hiroi (Japan Atomic Energy Agency, director)

5-9 Report of NUSTEC experience and proposals for new nuclear power disaster prevention

Masahiro Yoshida (Nuclear Safety Technology Center, corporate planning office, deputy director)

<11:25-12:50 Lunch>

12:50–14:10

◎ 2nd floor, Zuiun room

- 5-10 History and current situation of radiation protection related Fukushima
Makoto Imai (Chiyoda Technol Corp. director·deputy head of sales headquarters)
- 5-11 Toshiba's nuclear energy activities
Kiyoshi Okamura (Toshiba Corp., corporate vice president and general manager of nuclear energy systems & services division)
- 5-12 Hitachi activity on nuclear energy and radiation application and their contribution in Asia
Akira Maru (Hitachi Ltd., senior corporate officer)
- 5-13 MHI activities for safety improvement on PWR
Tatsuhiko Yoshizu (Mitsubishi Heavy Industries, Ltd., deputy general manager of nuclear systems engineering dept.)

<14:10–14:30 Coffee Break>

6. 14:30– 16:00 International cooperation in Asia (panel discussion based on the above presentations)

Chair: Tetsuo Sawada (Tokyo Institutes of Technology)

◎ 2nd floor, Zuiun room

Participants: Yongjiang Li (China) S.C.Chetal (India) Yergazy A. Kenzhin (Kazakhstan) Yi-Bin Chen (Taiwan) Kazuaki Katoh (Japan) Masahiro Yoshida (Japan)

- Energy supply and demand in Asia in the 21st century and the role of nuclear energy
- Asian cooperation for the future of nuclear energy
- Asian cooperation in advanced utilization and application of radiation

<move to Mito, Ibaraki pref.>

2012 April 13 (O-arai Research Center of JAEA)

<move to O-arai>

7. 09:00 - 10:00 Areas and perspective of application of radiological research as the advanced science and technology chair: Kazumoto Ito

- 7-1 Frontier science at J-PARC
Shoji Nagamiya (KEK & JAEA J-PARC Center, director)
- 7-2 Carbon ion radiotherapy as advanced technology in cancer treatment
Hiroshi Tsuji (National Institute of Radiological Sciences, director of research program for carbon ion therapy and diagnostic imaging)

8. 10:00 - 10:10 Closing remarks chair: Kazumoto Ito
8-1 Yoshihide Yamasaki (director, NPO Nuclear Salon Fuji-ie)

©10:10-11:30 Tour of the Experimental Fast Reactor JOYO (JAEA,O-arai,Ibaraki pref.)

<11:30-12:15 Lunch >

<move to Tokai>

©13:00-14:00 Tour of J-PARC(JAEA,Tokai, Ibaraki pref.)

<move to Sendai, Miyagi pref.>

2012 April 14 (Onagawa, Miyagi pref.:about 320 km north of Tokyo)

<move to Onagawa>

©10:30-14:00 Tour of the Onagawa NPP of Tohoku Electric Power Company

<move to Tokyo>