



## 2024 ISOE International ALARA Symposium Kyoto, Japan, October 1-3, 2024

### Program

#### ISOE International ALARA Symposium

The Asian Technical Center (ATC) of the Information System on Occupational Exposure (ISOE) is pleased to organize the 2024 International ALARA Symposium on occupational exposure management at nuclear facilities. The symposium will be held in Kyoto, Japan from October 1 to 3. It is co-sponsored by OECD Nuclear Energy Agency (NEA) and International Atomic Energy Agency (IAEA).

This symposium targets all those concerned with radiation protection at nuclear power plants. Relevant experts from utilities, governments and regulatory bodies, and also from relevant companies are expected to attend this symposium.

The ATC expects great success of this symposium by the supports of the participants and, hopes that this symposium contributes to further improvement of radiation protection at nuclear power plants.

#### Symposium Language

Working language of this symposium will be English.

\* Note; Simultaneous interpretation between Japanese and English will be provided only during the symposium on the 1<sup>st</sup> and 2<sup>nd</sup> day. On the 3<sup>rd</sup> day during technical visit consecutive interpretation between Japanese and English will be provided.

#### Symposium Schedule

Date	Time	
Oct. 1 (Tue)	12:30 - 13:00	Registration
	13:00 - 14:35	Opening / Session 1 / Session 2 / Session 3
	15:10 - 16:50	Session 4
	17:15 - 19:00	Welcome Reception
Oct. 2 (Wed)	10:00 - 12:00	Session 5 / Session 6 / Session 7
	12:00 - 13:30	Lunch Break
	13:30 - 14:30	Session 8 / Session 9
	15:10 - 15:50	Session 10
	15:50 - 16:10	Closing
Oct. 3 (Thu)	08:30 - 18:30	Tsuruga Power Station (Japan Atomic Power Company)



**October 1, 2024 (Tuesday)**

**12:30-13:00 Registration**

**13:00-13:15 Opening**

Welcome Address: YOSHIDA Mitsuaki, Nuclear Safety Research Association, Japan  
Administrative Announcement: ATC

**13:15-13:35 Session 1 Special Lecture**

Chairperson: TAIRA Junichi, TEPCO, Japan

Presentation 20min: 15min for Speaker, 5min for Q&A

**13:15-13:35 1-1) Highlights on RP Activities at OECD NEA**  
ZHANG Ye, OECD/NEA

**13:35-13:55 Session 2 RP at the Design and Construction Stages of new NPPs**

Chairperson: TAIRA Junichi, TEPCO, Japan

Presentation 20min: 15min for Speaker, 5min for Q&A

**13:35-13:55 2-1) Radiation Protection at the design stage of nuclear installations**  
Caroline SCHIEBER, CEPN, France

**13:55-14:35 Session 3 RP Education and Training**

Chairperson: MINAMI Tomohiro, Chugoku EPC, Japan

Presentation 20min: 15min for Speaker, 5min for Q&A

**13:55-14:15 3-1) Tennessee Valley Authority RP Staff Development Program**  
Bradley BOYER, Tennessee Valley Authority, USA

**14:15-14:35 3-2) Senior Management Leadership to Embrace RP Innovations at USA  
Operating Nuclear Plants**  
David W. MILLER, University of Illinois at Urbana-Champaign, USA

**14:35-15:10 Break (35 min.) (Taking a Photo)**

**15:10-16:50 Session 4 RP Management and ALARA Activities part 1**

Chairperson: MISHIMA Seitaroh, Shikoku EPC, Japan

Presentation 20min: 15min for Speaker, 5min for Q&A

**15:10-15:30 4-1) Improvement of radiation control operation**  
UEDA Shunnosuke, TEPCO, Japan

**15:30-15:50 4-2) Radiation Protection Plan at the Shika Nuclear Power Station of  
Hokuriku Electric Power Company**  
OHBA Takashi, Hokuriku EPC, Japan

Chairperson: MATSUNAGA Mitsumasa, Chubu EPC, Japan

**15:50-16:10 4-3) Activities to reduce radiation exposure during outages of Ikata Power  
Station Unit 3**  
YANAI Yumi, Shikoku EPC, Japan

- 16:10-16:30 4-4) ALARA Activities and Radiation Control Practices at Tomari Nuclear Power Station  
MATSUKURA Yoshihiko, Hokkaido EPC, Japan
- 16:30-16:50 4-5) ALARA Activities at Kyushu Electric Power Company Nuclear Power Station  
MURAKAMI Takashi, Kyushu EPC, Japan

17:15-19:00 *Welcome Reception at Restaurant Patio (KRP Bldg. 1)*

**October 2, 2024 (Wednesday)**

09:30 the Meeting Room opened

**10:00-10:20 Session 5 RP Management and ALARA Activities part 2**

Chairperson: Jizeng MA, International Atomic Energy Agency

Presentation 20min: 15min for Speaker, 5min for Q&A

- 10:00-10:20 5-1) Initiatives for Fostering Employee's Awareness of ALARA at Tsuruga Power Station  
SASAKI Hiroyuki, The sJapan Atomic Power Company, Japan

**10:20-11:00 Session 6 Source Reduction Activities**

Chairperson: Jizeng MA, International Atomic Energy Agency

Presentation 20min: 15min for Speaker, 5min for Q&A

- 10:20-10:40 6-1) OHI-4 Regarding the effect of zinc injection on reducing radiation source exposure — Effect of reducing radiation doses in the working environment by injecting zinc into the primary coolant —  
OGAWA Yuusuke, Kansai EPC, Japan
- 10:40-11:00 6-2) Measures to reduce dose equivalent rate at Shimane Nuclear Power Station  
MINAMI Tomohiro, Chugoku EPC, Japan

**11:00-12:00 Session 7 RP at the Decommissioning Stage**

Chairperson: KANEHAMA Hideaki, TEPCO, Japan

Presentation 20min: 15min for Speaker, 5min for Q&A

- 11:00-11:20 7-1) RP Issues at the decommissioning stage of NPPs  
Laure-Anne BELTRAMI, CEPN, France
- 11:20-11:40 7-2) Status of Radiation protection efforts in Fukushima Daiichi NPS  
KUROHAGI Masayuki, TEPCO, Japan
- 11:40-12:00 7-3) Radiation control in decommissioning of Hamaoka Nuclear Power Station  
KATSUMI Yasuhiro, Chubu EPC, Japan

12:00-13:30 **Lunch time (90 min.)**

**13:30-13:50 Session 8 RP and Waste Management**

Chairperson: ONOUE Masafumi, Kyushu EPC, Japan

Presentation 20min: 15min for Speaker, 5min for Q&A

- 13:30-13:50 8-1)** Cernavoda NPP: Radioactive waste characterization program  
Georgian-Viorel TOBOSARU, S.N. NUCLEARELECTRICA S.A -  
CNE CERNAVODA NPP, Romania

**13:50-14:30 Session 9 Source Term Management**

Chairperson: ONOUE Masafumi, Kyushu EPC, Japan

Presentation 20min: 15min for Speaker, 5min for Q&A

- 13:50-14:10 9-1)** Cernavoda NPP: Source term control improvement & optimization of individual and collective doses  
Catalina CHITU, S.N. NUCLEARELECTRICA S.A - CNE  
CERNAVODA NPP, Romania
- 14:10-14:30 9-2)** Source Term Reduction via Activity Releases during CANDU unit outages  
Yury VERZILOV, Kinectrics Inc., Canada

**14:30-15:10 Break (40 min.)**

**15:10-15:50 Session 10 Related Equipment, Devices and System**

Chairperson: KITAHARA Masanori, Kansai EPC, Japan

Presentation 20min: 15min for Speaker, 5min for Q&A

- 15:10-15:30 10-1)** Advanced 3D Modeling Using ROVs and Photogrammetry for Nuclear Inspections  
Andrew LAWRENCE, Deep Trekker, USA
- 15:30-15:50 10-2)** Advancements in Autonomous RP Surveys and Leak Detection  
Keith LOVENDALE, RADeCO, Inc., USA

**15:50-16:10 Closing**

- Administrative announcement for Technical Tour (ATC)
- Distinguished papers and closure of the symposium
- Closing remarks by YOSHIDA Mitsuaki (ISOE/ATC, Japan)