

March 2025

Issued & Edited by National Research and Innovation Agency of Indonesia (BRIN) and FNCA Secretariat of Japan

Workshop on Radiation Safety & Radioactive Waste Management held on October 22-24, 2024, Indonesia

The FNCA 2024 Workshop on Radiation Safety and Radioactive Waste Management (RS&RWM) project was held in a hybrid form in Serpong, Indonesia, October 22 – 24, 2024. The workshop was hosted by the National Research and Innovation Agency (BRIN) and the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan. It was attended by Representatives from 11 FNCA member countries, namely Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Malaysia, Mongolia, Philippines, Thailand and Vietnam. In the opening session, welcome remarks were delivered by Dr. Maman Kartaman Ajiriyanto, Head of Research Center for Nuclear Material and Radioactive Waste Technology, BRIN, and Mr. Totti Tjiptosumirat,

FNCA Coordinator of Indonesia. Following the welcoming remarks, Mr. WADA Tomoaki, FNCA Advisor of Japan, expressed opening remarks. The workshop began with a presentation by Mr. Wada on the Recent Development of FNCA Projects. This is followed by a presentation from Prof. KOSAKO Toshiso, Project Leader of Japan, provided an overview and goal of Radiation Safety and Radioactive Waste Management Project. The term's theme from 2024 to 2026 is “Environmental radiation and radioactivity from the nuclear facilities”. The prerequisite understanding of this term is based on “radiation-related facilities ultimately release radioactive materials into the natural world”.



Country Report

All eleven (11) FNCA member countries reported on national radiation protection policies and topics related to environmental radiation and radioactivity from nuclear/radiation facilities in their respective countries.

Presentation on environmental radiation and radioactivity

The first presentation was delivered by Dr. Mohd Zaidi Bin Ibrahim regarding environmental radiation and radioactivity in radiation-related facilities in Malaysia. Prof. KOSAKO made a presentation on environmental radioactivity monitoring in Japan Chemical Analysis Center (JCAC), which has continued the efforts to improve the reliability of environmental radioactivity monitoring. Mr. Duncan Kemp explained the environmental monitoring approach in detail for ANSTO, along with the general principles of source, pathway and receptor. The focus was on the airborne emissions and the liquid emissions from the site.



Presentation of Country Report



Poster Session

Group Discussion on Consolidated Report

In the group session, the participants were divided into two groups to discuss the issues to be addressed, the table of contents, and other things deemed necessary for the preparation of the integrated report and to deepen mutual understanding.

Poster Session

Six countries introduced their hot topics using a poster. The title of each poster is as shown below:

- Australia (Mr. Duncan Kemp): Modelling the Airborne Emissions from a Nuclear Facility.
- Indonesia (Dr. Triyono Basuki): Remediation project of ^{137}Cs -contaminated soil.
- Japan (Dr. SAITO Tatsuo): Outline of Public Exposure and NORM Management in Japan.
- Mongolia (Mr. Nyamdavaa E.): Environmental radioactivity in Mongolia.
- Philippines (Ms Kristine, M.R.D.): Airborne Radiation: Monitoring Radon Inside a Radioactive Waste Management Facility.
- Thailand (Dr. Klitsadee, Y.) : Utilization of bentonite in cementation of electric arc furnace dust contaminated with ^{137}Cs .



Group Discussion on Consolidated Report

FNCA Open Seminar

The Open Seminar was held at the BRIN on the second day (October 23). The seminar was attended by 62 people in person and online from BRIN, Indonesian Radiation Protection Association, and Indonesian Association of Physicists in Medicine. Following the welcoming speech by Prof. KOSAKO Toshiso, there were 4 presentations. The first speaker was Dr. SATOSHI Ikejiri of MEXT. The second speaker was Mr. Duncan Kemp from ANSTO who presented the Australian Facility Decontamination. The third speaker was Prof. Liu Jianqin from CIRP China who delivered a presentation on New Technologies and Applications for Waste Treatment and Decontamination. The last speaker was Mr. R. Sumarbagiono from BRIN Indonesia who presented on the Decontamination Program of Radioisotope and Radiopharmaceutical Production Installation. The Open Seminar was moderated by Ms. Gustri Nurliati from BRIN Indonesia.



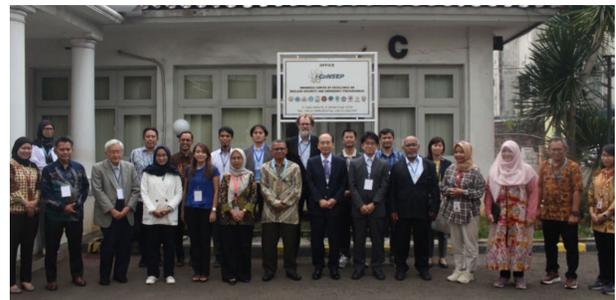
FNCA Open Seminar

Technical Visit to BAPETEN

Participants visited the Radiation Data Monitoring System (I-RDMS) facilities in Indonesia Center of Excellence on Nuclear Security and Emergency Preparedness (I-CoNSEP) at the BAPETEN Jakarta in the afternoon of October 23. BAPETEN was the Nuclear Energy Regulatory Agency in Indonesia.

Closing

The workshop was closed with the closing remarks from Dr. Maman Kartaman Ajiriyanto, Head of Research Center for Nuclear Material and Radioactive Waste Technology - BRIN, and Prof. KOSAKO Toshiso, Project Leader of Japan.



Technical Visit to BAPETEN



Closing Ceremony

2024 FNCA RS&RWM Workshop Participants

✧Online Participant

Australia

Mr. Duncan Kemp

Technical Director, Radioactive Waste
Australian Nuclear Science and Technology Organization (ANSTO)

Bangladesh ✧

Dr. Khandoker Asaduzzaman (PL)

Chief Scientific Officer and Head, Institute of Nuclear Science and Technology
Bangladesh Atomic Energy Commission (BAEC)

China ✧

Prof. LIU Jianqin

China Institute for Radiation Protection (CIRP)

Indonesia

Dr. Syaiful Bakhri

Chairman of Research Organization for Nuclear Energy,
National Research and Innovation Agency (BRIN)

Mr. Totti Tjiptosumirat (CD)

FNCA Coordinator of Indonesia

Dr. Maman Kartaman Ajiriyanto (PL)

Head, Research Center for Nuclear Materials and Radioactive Waste Technology,
Research Organization for Nuclear Energy - BRIN

Dr. Dadong Iskandar

Principal Researcher, Research Center for Nuclear Material and Radioactive Waste Technology,
Research Organization for Nuclear Energy – BRIN

Dr. Syarbaini, M.Sc

Principal Researcher, Research Center for Nuclear Material and Radioactive Waste Technology,
Research Organization for Nuclear Energy - BRIN

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Junior Researcher, Research Center for Nuclear Material and Radioactive Waste Technology,
Research Organization for Nuclear Energy - BRIN

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Nuclear Energy Regulatory Agency (BAPETEN)

Mr. Pandu Dewanto, ST, MT

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Nuclear Energy Regulatory Agency (BAPETEN)

Ms. Ramadhani Amellia A.Md.

Skilled Nuclear Engineer - Directorate of Nuclear Facility Management - BRIN

Ms. Shafira Kiranasari Agung A.Md.

Skilled Nuclear Engineer – Directorate of Nuclear Facility Management - BRIN

Japan**Mr. WADA Tomoaki**

FNCA Advisor of Japan

Dr. IKEJIRI Satoshi

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Ms. NAKAHARA Risa ✖

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Prof. KOSAKO Toshiso (PL)

Professor Emeritus, The University of Tokyo

Dr. SAITO Tatsuo ✖

Principal Engineer, Disposal Project Planning Office, Radioactive Wastes Disposal Center
Decommissioning and Radioactive Waste Management Head Office
Japan Atomic Energy Agency (JAEA)

Dr. HASHIMOTO Makoto ✖

Senior Principal Engineer, Safety Administration Department
Safety and Nuclear Security Administration Head Office
Japan Atomic Energy Agency (JAEA)

Ms. CHE Jong-ah (Secretariat)

Nuclear Safety Research Association (NSRA)

Kazakhstan ✖**Mr. Vyacheslav Gnyrya (PL)**

Deputy Director for Tests,
Institute of Atomic Energy of the National Nuclear Center of the Republic of Kazakhstan (IAE NNC RK)

Malaysia**Dr. Mohd Zaidi bin Ibrahim (PL)**

Manager, Waste Technology Development Centre
Waste Technology and Environment Division - Malaysian Nuclear Agency

Mongolia

Mr. Nyamdavaa Enkhgerel (PL)

Head of Nuclear Safety and Security Department
The Nuclear Energy Commission of Mongolia

Philippines

Ms. Kristine Marie Romallosa Dean (PL)

Science Research Specialist I
Philippine Nuclear Research Institute (PNRI)

Thailand

Dr. Klitsadee Yubonmhat (PL)

Nuclear Scientist
Radioactive Waste Management Center
Thailand Institute of Nuclear Technology (TINT)

Vietnam

Mr. Nguyen Thanh Thuy (PL)

Deputy Director
Institute for Technology of Radioactive and Rare Elements (VINATOM)

FNCA Activities in 2024

Activity	Date	Venue
2024 Study Panel & The 24th Coordinators Meeting	March 11 to 13, 2024	Tokyo (hybrid)
Workshop on Radiation Safety and Radioactive Waste Management	October 22 to 24, 2024	Indonesia (hybrid)
The 25th Ministerial Level Meeting	December 18 to 19, 2024	Tokyo (hybrid)