

Radiation Safety & Radioactive Waste Management Workshop 2017 1-3 August 2017, Bangkok, Thailand

The FNCA 2017 Workshop on Radiation Safety and Radioactive Waste Management (RS&RWM) was held from 1st to 3rd August 2017, at the Grand Mercure Fortune Bangkok, Kasetsart University and the Thailand Institute of Nuclear Technology (TINT). The workshop was jointly organised by the TINT and the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan.



Front row: Mr Wada, FNCA Coordinator of Japan (left)
Dr Nisamaneephong, Executive Director of TINT (middle)
Mr Michikawa, MEXT (right)

At the opening session, Dr. Pornthep Nisamaneephong, FNCA Coordinator of Thailand, Mr. Tomoaki Wada, FNCA Coordinator of Japan and Dr. Yuichi Michikawa, MEXT delivered a welcoming speeches. In the speeches, they all mentioned the importance of radioactive waste management in the FNCA member countries, and hoped the project will be of great help to the member countries.

Following the opening session, Mr. Wada briefly introduced the history and achievement of FNCA. In the presentation, he mentioned that in the last Coordinators Meeting held in March 2017, it was agreed that the Radiation Safety and Radioactive Waste Management project would go forward to the next phase for supporting member countries with safety improvement related to radiation safety and radioactive management of low-level radioactive waste repositories. After Mr. Wada, Prof. Kosako gave an introductory speech for the new phase (Phase 6) which will focus on the “Low-level Radioactive Waste Repository. Under this theme, he suggested to publish a consolidated report in 2019, which will not only become an indicator of the situations in FNCA countries, but also a mutual reference and understanding.



Prof Toshiso Kosako
Emeritus Professor of the University of Tokyo

After the introductory sessions, the participants reported on either (A) “Low-level Radioactive Waste Repository”;; or (B)” Current Status on Radioactive Waste and Spent Nuclear Fuel Management Including Challenges, Problems and Future Plan for the Low-level Radioactive Waste Repository”, in line with the situation in their countries. Detailed summary of each presentation can be found on the [FNCA website](#).

The participants then discussed on the framework of the “Consolidated Report on Low-level Radioactive Waste Repository”. Consolidated Report is basically published at the end of each phase as a summary of the activities during three years. It was decided that the decision about the document framework will be made through email exchanges after the workshop has finished.

After the Consolidated Report session, the participants presented on the topics of their most interest respectively. For some countries, disposal program are very difficult to implement, especially due to issues and problems related to the human resources, politics and economics. Experiences in the disposal program shared by Republic of Korea, Malaysia, and the Philippines are very valuable for other countries.

In the morning of 3 August, the Open Seminar titled “Radiation/Nuclear Application and Radioactive Waste Management” was held in the Kasetsart University. The seminar was attended by around 50 participants including professors, researchers and students. In the seminar, Dr Michikawa from MEXT introduced their activities on human resources development that work together with the FNCA. Next, Dr Hideki Kawamura, mcm Japan, talked about the safety case for public concerns in radioactive waste management. After that, Dr Mohd Abd Wahab Yusof, Nuclear Malaysia, gave an overview of the safe management of radioactive waste in Malaysia. Finally, Dr Wanwisa Sudprasert, Kasetsart University presented on the detection methods for irradiated foods. The open seminar and workshop was officially closed with the closing

remarks from Ms Nanthavan Ya-anant, the Project Leader of Thailand and Prof Kosako, the Project Leader of Japan.



Dr Wanwisa Sudprasert, Kasetsart University

In the afternoon of 3 Aug, a technical visit to the Thailand Institute of Nuclear Science (TINT) was conducted. The TINT head office, is located in Ongkharak district, Nakhon-Nayok province, about 70 km. away from Bangkok. First, they visited the Electron Beam irradiation facility where gemstone coloring is conducted. Next they headed to the R&D laboratories where the plant growth promoters (PGP) and super water absorbents (SWA) are produced by means of electron accelerator applications, and then they visited the radiochemistry laboratories, including C-14- dating, and H-3 analytical laboratories. Finally, they visited the new radioactive waste storage facility and radioactive waste treatment facility; incineration system.



Radioactive waste storage facility



In front of the Radioactive Waste Storage Building

Workshop Participants

■ **Australia**

Mr Duncan Kemp

Manager,
Waste Management Services,
Australian Nuclear Science and Technology
Organisation(ANSTO)

■ **Bangladesh**

Dr M. Moinul Islam

Chief Scientific Officer,
Health Physics & Radioactive Waste Management
Unit,
Institute of Nuclear Science & Technology,
Atomic Energy Research Establishment (AERE),
Bangladesh Atomic Energy Commission (BAEC)

■ **China**

Ms He Hua

Engineer,
China National Nuclear Corporation (CNNC)

■ **Indonesia**

Mr Moch Romli

Safety Supervisor,
Center for Radioactive Waste Technology (CRWT),

National Nuclear Energy Agency of Indonesia
(BATAN)

■ **Japan**

Prof Toshiso Kosako

Professor Emeritus,
The University of Tokyo

Dr Yoshiaki Sakamoto

Senior Principal Engineer,
Sector of Decommissioning and Radioactive Waste
Management,
Radioactive Wastes Disposal Project Center,
Disposal Research and Development Office,
Japan Atomic Energy Agency (JAEA)

Dr Hideki Kawamura

President,
mcm japan

Mr Tomoaki Wada

FNCA Coordinator of Japan

Dr Yuichi Michikawa

Deputy Director,
International Nuclear and Fusion Affairs Division,
Research and Development Bureau,
Ministry of Education, Culture, Sports, Science and
Technology (MEXT)

■ **Kazakhstan**

Ms Aliya Izbaskhanova

Head,
Division for Accounting and Control of Nuclear
Material,
Ionizing Radiation Sources and Radioactive Waste,
Radiation Safety Department,
National Nuclear Center (NNC) of the Republic of
Kazakhstan

■ **Republic of Korea**

Dr Hyuncheol Kim

Senior Researcher,
Korea Atomic Energy Research Institute (KAERI)

■ Malaysia**Dr Mohd Abd Wahab Yusof**

Director,
Division of Waste and Environmental Technology,
Malaysian Nuclear Agency (Nuclear Malaysia)

■ Mongolia**Ms Batdelger Uranchimeg**

Senior Officer,
Executive Office of Nuclear Energy Commission

■ Philippines**Mr Edmundo P. Vargas**

Senior Science Research Specialist,
Philippine Nuclear Research Institute (PNRI)

■ Thailand**Dr Pornthep Nisamaneephong**

FNCA Coordinator of Thailand
Executive Director,
Thailand Institute of Nuclear Technology (TINT)

Mr Nikom Prasertchiewchan

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

Ms Nanthavan Ya-anant

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

Ms Archara Phattanasub

Head,
Radioactive Waste Management Technology
Development Section,
Radioactive Waste Management Center,
Thailand Institute of Nuclear Technology (TINT)

Mr Virut Kasemtanasuk

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

■ Vietnam**Ms Doan Thi Thu Hien**

Researcher,
Vietnam Atomic Energy Institute (VINATOM)

■ FNCA Secretariat**Ms Ayako Tandia**

International Affairs and Research Department,
Nuclear Safety Research Association (NSRA)

*Detailed information and summaries of the workshop
can be found on the FNCA website.

(http://www.fnca.mext.go.jp/english/rwm/e_ws.html)

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