



Report on ICRP Seminar

NMIJ International Cooperation Office

Date: 13 November 2023, 13:30 ~ 17:00 (JST)

Venue: AIST Tokyo Waterfront (Aomi, Koto-ku, Tokyo) and Online

Host: National Metrology Institute of Japan, AIST (NMIJ/AIST)

The International Commission on Radiological Protection (ICRP) Seminar was held on 13 November 2023 at AIST Tokyo Waterfront. Concurrently with the Annual Meeting and Symposium of the International Commission on Radiological Protection, NMIJ invited two ICRP members and local experts to this seminar on “Radiation Protection and Dosimetry”. 35 participants (including one international) attended in person and 122 (including five international) participated online.

The seminar was opened by Dr. Takashi Usuda (NMIJ) and chaired by Dr. Tetsuro Matsumoto (NMIJ).

The first half of the seminar began with a video presentation by Dr Kimberly Applegate (University of Kentucky College of Medicine, Chair of ICRP Committee 3) entitled “The ICRP's review of the system of radiological protection: New science, ethical expectations, and applications in imaging and therapy.” She introduced the ICRP and explained of the activities for the ICRP's next main recommendations.

Dr. Munehiko Kowatari (National Institute of Quantum Science and Technology) gave a presentation on “Dose estimation of victims who are accidentally exposed in emergency exposure situations.” He introduced the ICRP recommendations related to emergency exposure and explained the dose estimation by simulating past exposure accidents.



Opening address:
Dr. Takashi Usuda



Moderator:
Dr. Tetsuro Matsumoto



Dr. Kimberly Applegate
Video presentation



Dr. Munehiko Kowatari

After a break, the second half of the seminar began with the presentation by Dr Maria Antonia Lopez Ponte (CIEMAT, Secretary of ICRP Committee 2) on “Present and future perspectives of the dosimetry system of ICRP.” She introduced the radiation protection quantities, the new operational quantities, and developments in computer phantoms, and explained the ICRP dosimetry system for the future.



Dr. Maria Antonia
Lopez Ponte

Dr. Masahiro Kato (NMIJ) then gave a presentation on “Field calibration method of dosimeters for environmental monitoring with a collimated irradiation system.” He introduced the activities on the dosimetry standards at NMIJ and explained a collimated irradiation system for calibration of environmental radiation monitoring devices in Japan.



Dr. Masahiro Kato

The Fukushima International Research and Education Institution then announced that the ICRP 2024 meeting would be held in Fukushima from Thursday 21 to Thursday 28 November 2024. Finally, the seminar was closed by Dr. Juntaro Ishii (NMIJ).



Closing: Dr. Juntaro Ishii

We extend our sincere gratitude to the ICRP and QST for their cooperation in organizing this seminar, and Chiyoda Technol Corporation, Nagase-Landauer, Ltd., Japan Radioisotope Association, Japan Electric Measuring Instruments Manufacturers' Association, Nippon Ray Tech Co., Ltd., and Applied Engineering Inc. for their support.

The programme and presentation materials for the seminar are available at the following URL.

https://unit.aist.go.jp/nmij/english/public/events/seminar/2023/ICRP_seminar/