

Second announcement

Joint IES-ICRP Symposium on
ENVIRONMENTAL PROTECTION WITHIN THE ICRP SYSTEM OF
RADIOLOGICAL PROTECTION
From science/knowledge to application

Venue: Swany (Rokkasho, Aomori, Japan)

Tuesday, October 4, 2016

Organised by the Institute for Environmental Sciences (IES) and the International Commission on Radiological Protection (ICRP) with support from the Nippon Foundation

Background

Committee 5 is concerned with radiological protection of the environment. It will aim to ensure that the development and application of approaches to environmental protection are compatible with those for radiological protection of man, and with those for protection of the environment from other potential hazards. The ICRP system for radiological protection is sound and robust and has contributed to the understanding of environmental impact in different contexts, e.g. in relation to the accident at the Fukushima Daiichi Nuclear Power Station, in relation to the London Convention and in relation to the impact of radioactive discharges into the North-East Atlantic Ocean. Committee 5 continues to develop protection of the environment within the system of radiological protection by broadening and consolidating the scientific basis that underpins the system, and by drawing on the experience gained in its application in the three exposure situations considered by ICRP.

Objectives

IES and ICRP welcome this opportunity to discuss current work on radiological protection of the environment, covering topics including:

- The concept and use of Reference Animals and Plants (RAPS), including a general introduction to environmental protection within the ICRP system of radiological protection: From *Publication 91* to TG99 and beyond.
- The “science base” underpinning environmental radiation protection: Transfer, dosimetry, RBE weighted absorbed dose, effects.
- Applying the ICRP system for environmental protection.

Registration

Attendance at the symposium is free of charge. However, advance registration is required as attendance is limited to 75 people. Please send your name, affiliation, and e-mail address to Haruyuki Ogino (ICRP Assistant Scientific Secretary) at envrpt@icrp.org by 23 September 2016.

Symposium venue

Swany (1-8 Nozuki, Obuchi, Rokkasho-mura, Kamikita-gun, Aomori, Japan)

http://www.jomon.ne.jp/~pulaza97/index_en.html

Program

Opening Address

10:30–10:40 Opening Address Prof. Higley, ICRP-C5 (Chair: Prof. Ono, IES)

Scientific Session (Chairs: Prof. Higley and Dr. Hisamatsu)

10:40–11:10 Brief overview of the role of ICRP and where C5 fits within this structure Prof. Higley (ICRP-C5)

11:10–11:50 The concept of protection of the environment and C5 current Prof. Copplestone (ICRP-C5)

11:50–13:00 *Lunch*

13:00–15:00 Panel discussion to address issues, focused in the Japanese situation, related to:

- i. Transfer of radionuclides Prof. Strand (ICRP-C5)
- ii. Dosimetry Dr. Ulanovsky (ICRP-C5)
- iii. Effects Dr. Garniel-Laplace (ICRP-C5)
- iv. RBE weight absorbed dose Dr. Real (ICRP-C5)
- v. System for radiation protection of the environment (i.e., existing, planned and emergency) Prof. Copplestone (ICRP-C5)

Discussion

15:00–15:15 *Coffee break*

15:15–16:45 Topics on dosimetry and radiation effects

- i. Dosimetry of wild organisms and their natural dose Dr. Ohtsuka (IES)
- ii. Radiation effects and dosimetry of large Japanese field mice in Fukushima Dr. Miura (Hiroasaki Univ.)
- iii. Morphological defects in native trees around the Fukushima Daiichi Nuclear Power Plant Dr. Watanabe (QST, NIRS)

16:45–17:00 Summary of key points from presentations Prof. Sakai (ICRP-C5)

Concluding Remarks

17:00–17:10 Concluding Remarks Prof. Higley, ICRP-C5 and Dr. Hisamatsu, IES

Note: Presentations will be given in English without interpretation.