

First announcement

ICRP Symposium on Radiological Protection Dosimetry
Historical Review and Current Activities

The University of Tokyo
Thursday, February 18, 2016

Organized by the International Commission on Radiological Protection (ICRP)
with support from Nippon Foundation

Background

ICRP Committee 2 is responsible for the development of dose coefficients for the assessment of internal and external radiation exposures; development of reference biokinetic and dosimetric models, and reference data for workers and members of the public. The Committee and its Task Groups are currently engaged in a large program of work to provide revised dose coefficients that implement the 2007 Recommendations and introduce improvements in methodology.

ICRP Committee 2 works closely with the International Commission on Radiation Units and Measurements (ICRU). It also works with the other ICRP Committees, for example in current work to provide advice on the use of effective dose as a protection quantity.

Objectives of the symposium

ICRP Committee 2 welcomes this opportunity to discuss the current work with Japanese scientists and practitioners, covering topics including:

- Scientific bases of ICRP dose calculations
- Current status of the development of models and data
- Application of the models and data to dose assessments for workers and the public with focus on environmental exposures after accidental releases, risk assessment and radiation monitoring
- Use of Equivalent and Effective Dose as protection quantities
- Research needs and future developments

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Preliminary program

Opening Address

10:00 – 10:10 Structure and Mission of the International Commission on Radiological Protection
John Harrison, C2 Chair

Session 1 – Introduction

Akira Endo, Session Chair

10:10 – 10:30 Overview of the ICRP System of Internal and External Dosimetry Wesley Bolch

Session 2 – Models and Data Used for the Calculation of Dose Coefficients

Michael Bellamy, Session Chair

10:30 – 10:55 Computational Phantoms of the Reference Adults – Stylized and Voxel Maria Zankl

10:55 – 11:20 Polygon Mesh Conversion of the ICRP Reference Phantoms Chan Hyeong Kim

11:20 – 11:40 Coffee Break

11:40 – 12:05 Methods of Dose Assessment to the Skeletal Tissues Derek Jokisch

12:05 – 12:30 Computational Phantoms of Children and Pregnant Females Choonsik Lee

12:30 – 13:00 Biokinetic Models for Radiological Protection John Harrison

13:00 – 14:00 Lunch

Session 3 – Dose Coefficients Using ICRP Reference Models and Data

Kimiaki Saito, Session Chair

14:00 – 14:25 Reference Dose Coefficients for Occupational External Exposure Nina Petoussi-Hens

14:25 – 14:50 Reference Dose Coefficients for Environmental Exposure Helmut Schlattl and Daiki Satoh

Session 4 – Application of Effective Dose and Radiation Monitoring Practice

KwangPyo Kim, Session Chair

14:50 – 15:15 Effective Dose and Risk Assessment John Harrison

15:15 – 15:40 Revisions to ICRU Operational Quantities Nolan Hertel

15:40 – 16:00 Coffee Break

Session 5 – Research Needed for the ICRP System of Radiological Protection Dosimetry

John Hunt, Session Chair

16:00 – 16:30 Issues on the Radiation Weighting Factor Tatsuhiko Sato

16:30 – 17:00 Dose Assessment of Workers and the Public – Lessons Learned from Fukushima Osamu Kurihara

17:00 – 17:25 General Discussion of Research Needs

Concluding Remarks

17:25 – 17:30 Concluding Remarks John Harrison, C2 Chair

Note: Presentations will be given in English without interpretation.

Registration

Attendance at the symposium is free of charge. However, advance registration is required as attendance is limited to 200 people.

Please send your name, affiliation, and e-mail address to:

Akira Endo (Japan Atomic Energy Agency), ICRP Committee 2
e-mail: ICRP-symposium@jaea.go.jp

Symposium venue

Room number 221,
Faculty of Engineering Bldg.2,
Hongo Campus, the University of Tokyo

Access to Hongo Campus

<http://www.t.u-tokyo.ac.jp/etpage/access/>

Location of the Faculty of Engineering Bldg.2,

http://www.u-tokyo.ac.jp/campusmap/cam01_04_03_e.html