

Application of the Commission's Recommendations

Development of User Focused Reports

European ALARA Network
14 March 2016

Kunwoo Cho
Vice Chairman, Committee 4

Outline

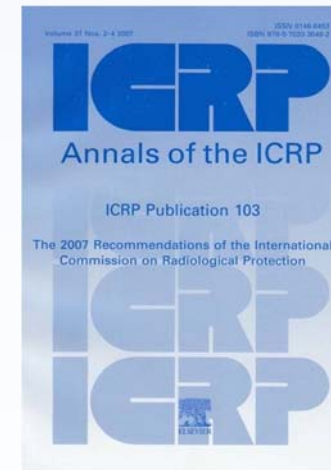
- **ICRP Background**
- **Committee 4**
- **User Focused Reports**
- **Ideas for Industrial Radiography**



This presentation has neither been approved nor endorsed by the Main Commission of ICRP

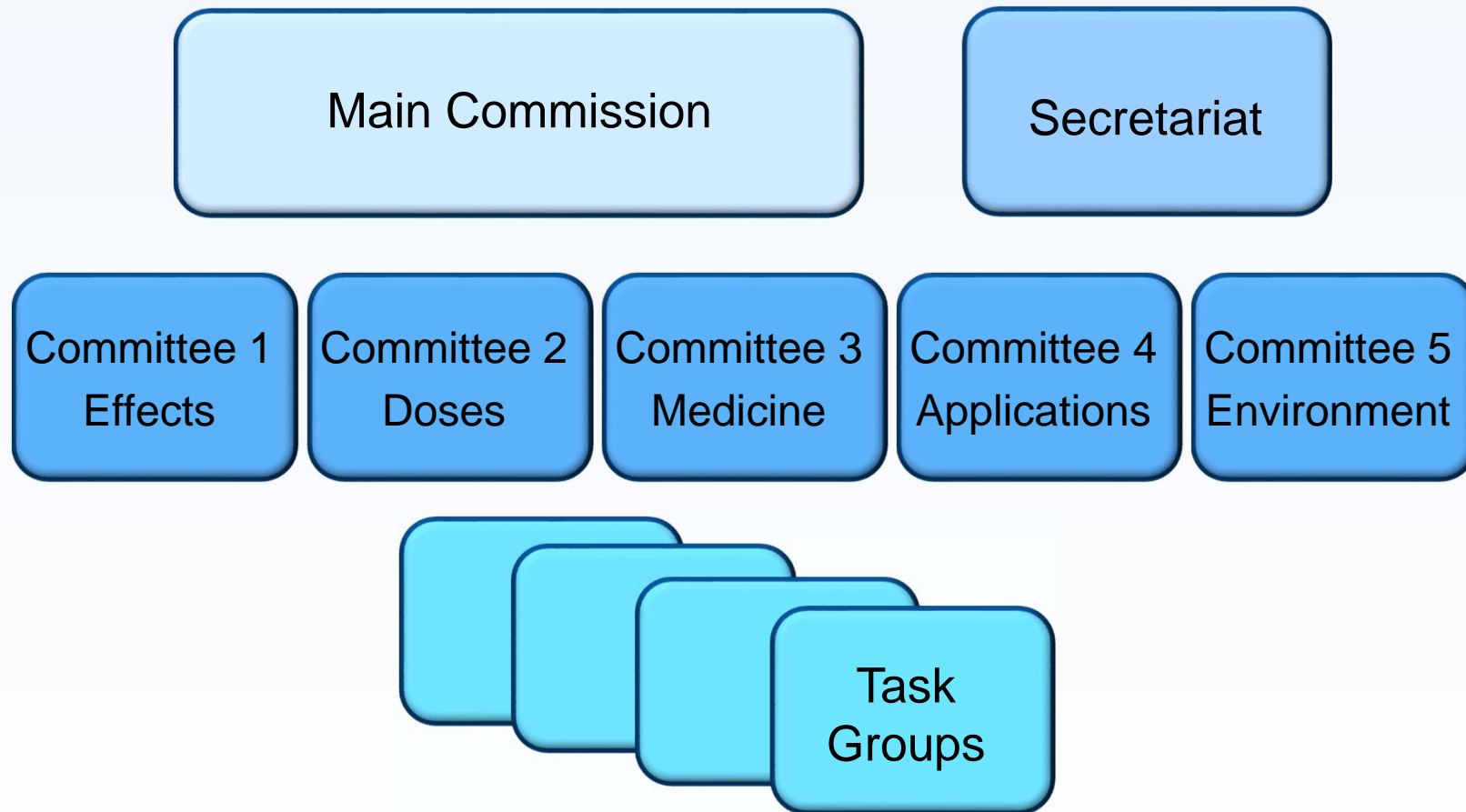
ICRP Background

- **Founded in 1928, International X-ray and Radium Protection Committee**
- **Renamed International Commission on Radiological Protection ICRP in 1950**
- **Registered charity UK**



ICRP
INTERNATIONAL COMMISSION ON
RADIOLOGICAL PROTECTION

ICRP Organization



Committee 4

Committee 4 develops principles and recommendations on radiological protection of people in all exposure situations.

- **Four Major Areas of Work**

- Existing Exposure Situations
- Response to Fukushima
- Ethical Foundations of the System of Radiological Protection
- Topical Reports



C4 Program of Work

- **Task Groups**
 - TG76 NORM
 - TG83 Cosmic Radiation
 - TG93 Update to Publications 109 and 111
 - TG94 Ethics
 - TG97 Surface Disposal
 - TG98 Contaminated Sites
- **Support to Work of other Committees**
 - TG79 Effective Dose
 - TG89 Occupational Radiological Protection in Brachytherapy
 - TG91 Radiation Risk Inference at Low Dose and Low Dose Rate
 - TG92 Definitions
 - Collaborative work proposal with C5 under consideration

User Focused Document Series

- C4 solicited topics from Special Liaison Organizations
- Series of documents focused on implementation of Commission's recommendations in a particular area
- Elaborate principles and address issues, not endorse specific regulatory approaches
- Documents would typically be 30 – 40 pages, provide:
 - Background
 - Issues
 - Recommendations

SLOs: CRCPD, EAN, EC, ENISS, NERIS, EURADOS, ALLIANCE, HERCA, FORO, INWUN, ISOE, IAEA, ICRU, ILO, IRPA, MELODI, NCRP, NEA, UNSCEAR, WHO, WNA

Topics

- **Topics invited from organisations in formal relations with ICRP**
 - *Publication 125*, Radiological Protection in Security Screening, August 2014 (EC, IAEA, ILO, IRPA, NEA, WHO, and ISO)
 - TG 97, Surface and Near Surface Disposal of Solid Radioactive Waste, TG approved end of 2014 (NEA)
 - High Activity Sources (EAN, IRPA)

Proposals

- **EAN has proposed to consider Non-Destructive Testing**
 - Justification with respect to the choice of NDT techniques (e.g. ultrasound compared to X-ray)
 - Optimisation – some guidance on setting dose constraints for industrial radiographers, i.e. what methodology should be used to set constraints, who should set them, and what would be a suitable value applying optimisation below the dose constraint
 - Medical surveillance – routine and after overexposures (including a consideration of the lens of the eye)

Terms of Reference

- **Radiation Protection for Mobile High Activity Sources**
- **Issues potentially to be considered:**
 - Justification
 - Radiation Protection Planning in Highly Variable Environments
 - Optimisation of Protection
 - Relationship of Safety Culture to Optimization
 - Dose Constraints
 - Public Exposure
 - Accident Situations
 - ...

Formation of a Task Group

- **Task Groups are charged with specific Terms of Reference to prepare a report**
- **Membership:**
 - One or two C4 members
 - Several Outside full members
 - A few Corresponding members
- **Review Process**
 - C4 review at each stage, with assigned two Critical Reviewers
 - MC review prior to consultation, and for publication, with assigned two Critical Reviewers

www.ICRP.org