

The Future of ICRP – Towards a Centenary and Beyond



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ICRP 2015





Welcome to Seoul



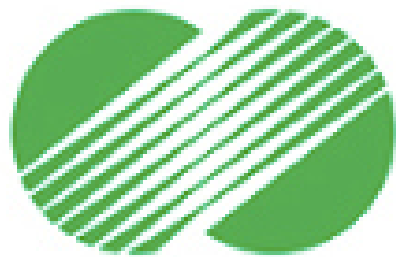


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INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION

ICRP

- **ICRP is now 87 years old**
- **Founded in 1928, International X-ray and Radium Protection Committee**
- **Renamed International Commission on Radiological Protection ICRP in 1950**
- **Registered charity UK**

In the beginning.....



Restaurant Hasselbacken, Stockholm, Sweden

First Chairman & First Publication

INTERNATIONAL RECOMMENDATIONS FOR X-RAY AND RADIUM PROTECTION

on the proposal of the Radio-Physics Section adopted by the Second International Congress of Radiology in Stockholm, July 27th, 1928

1. The dangers of over-exposure to X-rays and radium can be avoided by the provision of adequate protection and suitable working conditions. It is the duty of those in charge of X-ray and radium departments to ensure such conditions for their personnel. The known effects to be guarded against are:

- (a) Injuries to the superficial tissues;
- (b) Derangements of internal organs and changes in the blood.

I. Working Hours etc.

2. The following working hours etc. are recommended for whole-time X-ray and radium workers:

- (a) Not more than seven working hours a day.
- (b) Not more than five working days a week. The off-days to be spent as much as possible out of doors.
- (c) Not less than one month's holiday a year.
- (d) Whole-time workers in hospital X-ray and radium departments should not be called upon for other hospital service.

II. General X-Ray Recommendations.

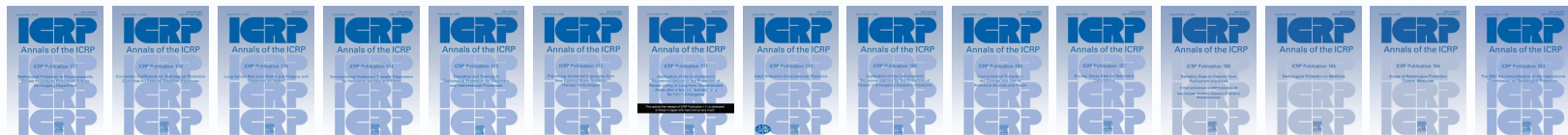
- 3. X-ray departments should not be situated below ground-floor level.
- 4. All rooms, including dark-rooms, should be provided with windows affording good natural lighting and ready facilities for admitting sunshine and fresh air whenever possible.



Rolf Sievert
Chairman 1928-1931

ICRP Mission

Advance for the public benefit the science of radiological protection, in particular by providing recommendations and guidance on all aspects of protection against ionising radiation



Structure of ICRP, 2013 – 2017

Main Commission

Chair: Claire Cousins, UK

Vice-Chair: Jacques Lochard, FR

11 other members

Scientific Secretariat

Chris Clement, CN

Nobuyuki Hamada, JP

Lynn Lemaire, Exec Assistant

C1 - Radiation Effects *William Morgan, USA*

C2 - Doses from Radiation Exposure *John Harrison, UK*

C3 - Protection in Medicine *Eliseo Vano, SP*

C4 - Application ICRP Recommendations *Donald Cool, USA*

C5 - Protection of the Environment *Carl-Magnus Larsson, AUS*

Main Commission 2013-2017



ICRP Considerations

- **ICRP is a charitable organisation**
- **Expert members recruited from different areas of radiological protection**
- **Unpaid members:**
 - **voluntarily give time and effort for the success of ICRP**
 - **many with busy full-time jobs**

Future plans

- **Review of the constitution ICRP**
- **Refine the election process**
- **Work on priorities for next Strategic Plan**
- **Produce plain language overview of the system of radiological protection and summaries of recommendations**
- **Open access to first 50 years publications**

Future plans

- **Review of the constitution ICRP**
 - **New UK Charity Commission operational policy**
 - **ICRP to change in line with this**
- **Refine the election process**
 - **Nearly 200 nominations for ICRP membership in 2013**
 - **Review process for next term in 2017**

Strategic Plan 2011-2017

Includes:

- **Strengths**
- **Challenges facing RP**
- **Objectives**
- **Initiatives**



Strategic Achievements

- **Established biennial symposia**
- **Established Special Liaison Organisations**
- **Held open nominations for members with nearly half new membership (20% women)**
- **Developed ICRP Code of Ethics**
- **Change of publisher from 2013**

Strategic Achievements

- **Recommended areas of research to UNSCEAR and other organisations**
- **Integrated protection of the environment into the system of radiological protection (Pub 124)**

Next Strategic Plan

Develop the next Strategic Plan

- Timeliness
- Content



Next Strategic Plan

Issues to consider:

- **Improving recommendations and infrastructure to support work of ICRP**
- **Broaden awareness of and access to ICRP publications**
- **Continue to increase engagement**

ICRP Symposia

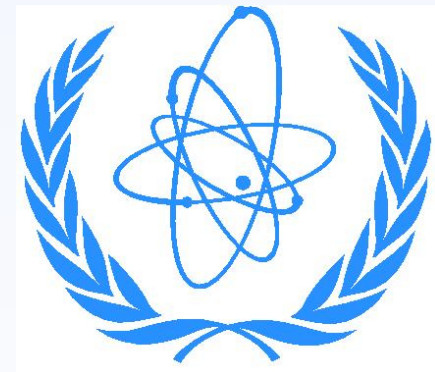
- **New initiative in 2011**
- **Designed to improve relations and increase collaboration**
- **Aim for diverse global venue**
 - **Bethesda 2011**
 - **Abu Dhabi 2013**
 - **Seoul 2015**
 - **Paris 2017**

Close Liaisons

With other international organisations:



- **ICRU**
- **IAEA**
- **UNSCEAR**
- **WHO**
- **IRPA**



Special Liaison Organisations

- **More organisations invited ‘Special Liaison’ status**
- **Representatives invited to:**
 - **Committee meetings to discuss specific issues**
 - **Join Task Groups to bring expertise**
- **Inclusion in Symposia**
- **Additional meetings with Main Commission**

Special Liaison Organisations

- **Number of organisations increased to 18**
- **Mainly European, International & USA**
- **Encourage more global representation of organisations**
- **Liaise with more radiology organisations to engage with health professionals**

Future plans

- **As a charity, ICRP does not have large financial reserve**
- **Several planned strategies require capital spend and increased financial resource**
- **Engaged fundraising company, CCS**
- **Now embarking on full campaign**

‘Advancing Together’

- **Campaign priorities:**
- **Maintain and improve ICRP’s current System of Radiological Protection**
- **Broaden awareness of RP and access to ICRP recommendations**
- **Increase engagement with professionals, policy-makers and the interested public**

‘Advancing Together’

**Aim to raise €10 million over
the next five years**

System of Radiological Protection

**13 Fundamental Recommendations
since 1928**

1 System of Radiological Protection

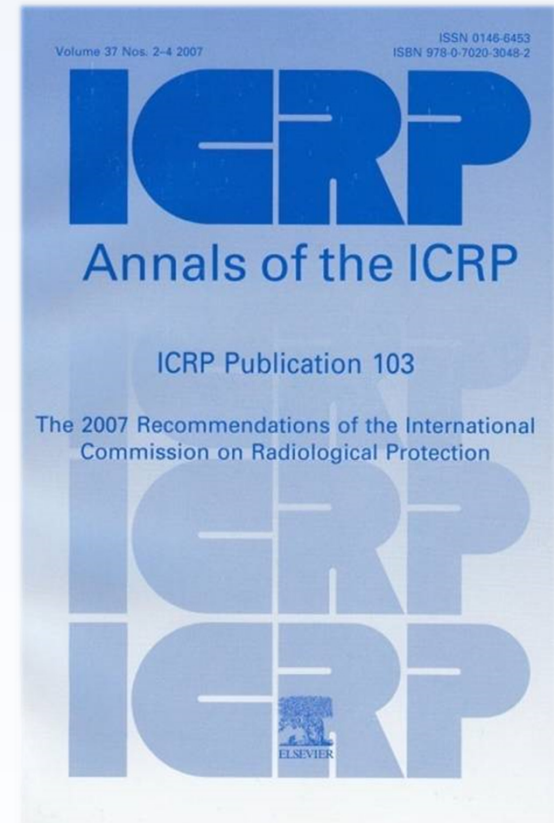
Aim of the Recommendations

Contribute to an appropriate level of protection for people and the environment against the detrimental effects of radiation exposure without unduly limiting the desirable human actions that may be associated with such exposure



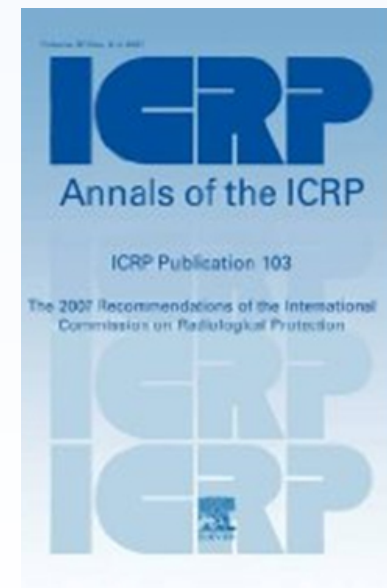
System of Radiological Protection

- Last updated in *ICRP Publication 103* (2007)
- Based on science, ethical and social values, and experience
- Forms the basis of radiation safety standards, legislation, guidance, programmes, and practice worldwide



ICRP 103

- Long gestation, commencing 1998
- Technical discussion IRPA meetings 2000 & 2004
- Draft web consultations 2004 & 2006
- Two progress reports
- Publication in 2007



Writing New Recommendations



System of Radiological Protection

- **17 years since last major system review commenced**
- **Main Commission planning a review beginning 2016**

Personal Views

- **Strengthen the ICRP Secretariat**
- **Consider other types of membership**
- **Award funding to young radiological protection professionals in training**
- **Expand use of social media**

Conclusions

ICRP:

- **is evolving and updating operations**
- **is increasing collaboration with other organisations**
- **is aiming to establish longer term financial security**

BUT

- **will continue to provide relevant guidance and recommendations**
- **will not compromise its independence as it heads towards a centenary and beyond**

**Do not fear going forward
slowly, fear only to stand
still**

Chinese proverb

**Discussion is an exchange of
knowledge; an argument an
exchange of ignorance**

Robert Quillen



www.icrp.org