

ICRP

The System of Protection: Future Developments

ICRP Perspective

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Chair ICRP

ICRP

- **Founded in 1928, International X-ray and Radium Protection Committee**
- **Renamed ICRP in 1950, broader remit**
- **Main Commission and 5 Committees**
- **Registered charity in the UK**
- **Only 2 paid employees**

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Established to 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

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- **Makes valued judgements based on available science**
- **Produces recommendations that should be relevant and timely**
- **Is an evolving organisation**

ICRP Information

- **Resources regarding ICRP organisation and work:**
- **Website, revised 2010**
- **Publications**
- **First Strategic Plan 2011-2017**

Strategic Plan 2011-2017

Includes:

- **Background information**
- **Structure of ICRP and operations**
- **ICRP strengths**
- **Challenges facing radiological protection**
- **ICRP objectives in coming years**
- **Some initiatives to achieve these objectives**

Strategic Plan 2011-2017

Challenges in radiological protection:

- **Technological developments in medicine**
- **Non-cancer effects**
- **Natural sources of radiation**
- **Protection of the environment**
- **Maintaining knowledge & expertise in radiological protection**

Strategic Plan 2011-2017

Technological developments in medicine:

- **Radiological protection in ion beam radiotherapy (TG 87)**
- **Radiological protection in cone beam CT (TG 88)**
- **Justification of imaging of asymptomatic individuals with ionising radiation (TG 86)**

Strategic Plan 2011-2017

Non-cancer effects:

- ‘Tissue reactions’
- Publication 118 *in press*
- Lens of the eye
- Cardiovascular effects

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Natural sources of radiation:

- Radiological protection against radon exposure - consultation until 8th June
- Cancer risk from alpha emitters (TG 64)
- Application of the Commission's Recommendations to NORM (TG 76)
- Application of the the Commission's Recommendations to radon exposure (TG81)

Strategic Plan 2011-2017

Protection of the environment:

- **RBE and reference animals and plants (TG 72)**
- **More realistic dosimetry for non-human species (TG 74)**
- **Integrating the ICRP system of protection for human and non-human species (TG 82)**

Strategic Plan 2011-2017

Lesson learned from Fukushima:

- **Implementation of recommendations in Publications 109 and 111**
- **Radiological protection of rescuers**
- **Protection of the public in emergency and existing exposure situations**

Strategic Plan 2011-2017

Other ICRP objectives:

- **Improve dissemination of ICRP Recommendations, ideally at low or no cost**
- **Liaise with organisations to promote scientific research to improve the System of Radiological Protection**
- **Raise awareness of RP in medicine**
- **Increased participation of ICRP in RP and other forums**

Strategic Plan 2011-2017

ICRP initiatives:

- **Hold regular ICRP symposia**
 - **First in Bethesda, October 2011**
 - **Next scheduled in Abu Dhabi late 2013**
- **Openly seek nominations for new members**
 - **New election process for Committee members 2013-2017 term**
 - **Details to be released on website**

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www.icrp.org

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INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION