



# ISO/TC 85/SC 2 Radiation Protection

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# ISO

- ❑ **ISO is the International Organization for Standardization**
- ❑ **ISO currently has some 130 member organizations on the basis of one member per country.**
- ❑ **ISO is a non governmental organization and its members are standardization institutes in their respective countries**



# ISO TC 85/SC 2

## Radiation Protection

- **20 Participant members:**

**Argentina, Austria, Belgium, Bulgaria, Canada, China, Czech Republic, Finland, France, Germany, Hungary, Italy, Japan, Korea, Poland, Russian Federation Spain, Sweden, United Kingdom, USA**

- **10 Observer members:**

**Czech Republic, Hungary, India, Ireland, Mongolia, Mexico, Netherlands, Pakistan, Romania, Slovakia, Switzerland**



# ISO TC 85/SC 2 at a glance

- 1 Advisory Group
- 11 Working Groups
- 18 International Standards published since 1999
- 20 items in progress
- 8 potential International Standards



# ISO TC 85/SC 2

## External Liaisons

- IAEA** International Atomic Energy Agency  
**Liaison officer : M.L. Perrin**
- EC** European Commission
- CERN** European Laboratory for Particle Physics
- ICRP** International Commission on Radiological Protection  
**Liaison officer : M.L. Perrin**
- ICRU** International Commission Radiation Units and Measurements
- ILO** International Labour Organization
- IOLM** International Organization of Legal Metrology
- WHO** World Health Organization
- WMO** World Meteorological Organization



# Structure of ISO/TC 85/SC 2

- *Chairman: Dr Eugène Pauli – IRSN (France)*
- *Secretary: Pierre Diakonoff – AFNOR*

# Structure of ISO/TC 85/SC 2

- WG 2 : Reference radiations**
- WG 4 : Apparatus for testing industrial gamma radiography and irradiators**
- WG 5 : Materials and devices for protection**
- WG 11 : Sealed sources**
- WG 13 : Internal dosimetry**
- WG 14 : Contamination monitoring and control**
- WG 17 : Radioactivity measurements**
- WG 18 : Biological Dosimetry**
- WG 19 : Dosemeters for external personal dosimetry**
- WG 20 : Inadvertent and illicit trafficking in radioactive material**
- WG 21 : Dosimetry for exposures to cosmic radiation in civilian aircraft**

- **Publications 2003/2004**

**ISO 17873 Nuclear facilities- Criteria for the design and operation of ventilation systems for nuclear installations other than nuclear reactors**

**ISO 17874-1 Remote handling devices for radioactive materials- Part 1 : General requirements**

**ISO 17874-2 Remote handling devices for radioactive materials- Part 2 : Mechanical master-slave manipulators**

**ISO 19238 Radiation Protection- Performance criteria for Service Laboratories performing biological dosimetry by cytogenetics**

**ISO 21909 Radiation Protection- Passive personal neutron dosimetry systems- Performance and test requirements**



## **New items related to :**

- Internal contamination**
- Biological dosimetry**
- Brachytherapy**
- Tomography**
- Radioactive sources**

## **Potential new items on :**

- Sealed sources**
- Medical field**

## New Work Item Proposals

- Radiation Protection - Guide to Monitoring Releases of Airborne Radioactive Substances From the Stacks and Ducts of Nuclear Facilities
- Clinical dosimetry - Beta radiation sources for brachytherapy
- Radioactive sources - Warning sign to indicate danger and promote protective action"
- Radiation Protection - Performance criteria for service laboratories performing cytogenetic triage for assessment of mass casualties in radiological or nuclear emergencies"
- Model of dosimetry evaluation - Paediatric computed tomography examination



# WEB Sites

- [www.afnor.org](http://www.afnor.org)
- [www.iso.org](http://www.iso.org)