



**International Standard Organisation
TC 85/ SC 2
“Radiological protection”**

**Alain RANNOU, Chairman of SC 2
Laurence THOMAS, Secretary of SC 2**

22nd plenary meeting of SC 2

Niagara Falls, Canada, 26 -29 April 2011

- 90 delegates and experts from 16 countries
- First participation of India
- Representatives from ILO, IAEA and IEC
- Meetings of WG 2, 13, 14, 17, 18, 19, 21, 22, 23 & 24
+ Advisory Group
- Liaisons to external organizations: Activity Reports provided by IAEA, ICRU, ICRP, ILO
+ Report on UNSCEAR activities
- Meeting of the Liaison Team between IEC/ SC 45B and ISO/ SC 2

Some figures of the SC 2's activity

- 4 new standards published since the last plenary meeting of SC 2 in June 2010 in Jeju,
→ 65 standards issued so far by SC 2.
- 25 standards are under development or revision
- 7 proposals under discussion and should shortly be added to the program of work:

Recent publications

- **ISO 26802:2010** (Jul. 2010)
Nuclear facilities -- Criteria for the design and the operation of containment and ventilation systems for nuclear reactors
- **ISO 8769:2010** (sept. 2010)
Reference sources -- Calibration of surface contamination monitors -- Alpha-, beta- and photon emitters
- **ISO 28218:2010** (Sept. 2010)
Radiation protection -- Performance criteria for radiobioassay
- **ISO 27048:2011** (Jan. 2011)
Radiation protection -- Dose assessment for the monitoring of workers for internal radiation exposure

new work item proposals (1)

- Internal dosimetry for occupational exposures of medical staff during medical applications of radionuclides
- Monitoring and internal dosimetry of specific materials - Part 1: Uranium
- Determination method of the radon exhalation rate of dense building materials
- Determination of the radon diffusion coefficient in waterproof materials using radon activity concentration measurement

new work item proposals (2)

- Measurement of radon-220 (Thoron)
- Performance criteria for laboratories using the cytokinesis-blocked micronucleus assay in blood lymphocytes for biological dosimetry
- Physical specification of the *in vitro* calibration for biological radiation dosimetry with cytogenetic endpoints (Acronym: BioDosCal)

Some further perspectives

- Characteristics of reference pulsed radiation
- Procedure for monitoring dose for extremities and lens of the eyes
- Estimation of caregivers and family exposure due to patient treated with I-131 after release from the hospital
- Calibration and/or quality assurance of dose calibrator in nuclear medicine
- Harmonization of the dose quantities in diagnostic medical applications and standardization of the parameters used to quantify individual and collective patient exposure

Other outcomes

- Decision to maintain WG 20 "*Illicit trafficking in radioactive materials*" until a new WG be set up including illicit trafficking in radioactive materials and control of contaminated materials and goods
- Commitment to explore the following potential topics:
 - ✓ operation and use of cargo/vehicle radiological inspection systems,
 - ✓ routine measurement of gaseous radionuclides in effluents,
 - ✓ clearance of radioactive wastes contaminated with radioisotopes for medical application



Next meeting of SC 2

The next meeting of SC 2 should be held in Paris (France) from 4 to 8 June 2012.



22nd meeting ISO/ TC 85 / SC2 « Radiation Protection » (April 2011)