

ICRP Committee 1 Meeting

27, 28 May 2024 – hybrid meeting in person (Vienna, Austria) and on Teams

The C1 spring meeting was held in hybrid format as a satellite to the UNSCEAR meeting and the workshop “30 Years of Scientific Achievements for International Radiological Protection: Summary of the Southern Urals Health Studies Program”. The meeting was organised by D Laurier, G Woloschak and E Ainsbury. Almost all C1 members attended (fully/partially). C1 includes 19 members from 10 countries with expertise in biology, genetics, human medicine, mathematics and statistics, physics and dosimetry, epidemiology, and radioecology. L Hafner attended as C1 intern. The observers from IAEA, MELODI, UNSCEAR, IARC and WHO were also invited, as were colleagues from the Main Commission, other Committees and external experts who had attended the workshop, for topics of joint interest.

Update on Task Groups

A specific focus was given to TGs considering constitutive elements of the radiation detriment.

TG91 Radiation Risk Inference at Low-dose and Low-dose Rate Exposure for Radiological Protection Purposes: Use of Dose and Dose Rate Effectiveness Factors (Chair W Rühm). The report is expected to be ready for public consultation before the end of 2024, with publication planned for 2025.

TG121 Radiation-Induced Effects on Offspring and Future Generations (Co-Chairs R Wakeford and P Hande). 11 peer-reviewed papers will be published in a special issue on this topic, following the workshop 2 years ago, in the *Int J Radiat Biol*. Draft report for review by critical reviewers expected for 2026.

TG122 Review of cancer risk models and non-radiation-related parameters and data for detriment calculation (Co-Chairs R Wakeford and L Vaillant). Collaboration with the UNSCEAR CanEpi expert group continues and the work is otherwise progressing well. Public consultation is expected in 2026.

Progress on the following TG's, discussed only briefly, was found to be satisfactory:

TG111 Factors Governing the Individual Response of Humans to Ionizing Radiation (Chair S Bouffler).

TG115 Risk and Dose Assessment for Radiological Protection of Astronauts (Chair W Rühm).

TG118 Relative Biological Effectiveness (RBE), Quality Factor (Q), and Radiation Weighting Factor (wR) (Chair G Woloschak).

TG119 Effects of Ionising Radiation on Diseases of the Circulatory System and their Consideration in the System of Radiological Protection (Co-Chairs T Azizova and D Laurier).

TG123 Classification of harmful radiation induced effects in human health for radiological protection purposes (Chair L Vaillant, Co-Chairs L Ainsbury and F Zölzer).

TG128 Individualisation and Stratification in RP: Implications and Areas of Application (Chair S Bouffler).

Other topics discussed during the meeting

Additional discussed topics included **ICRP reports recently accepted for publication or for public consultation**, the forthcoming **Committee elections** in July 2025, and the continued transversal work on **uncertainties** and **communication** with our stakeholders as well as the status of the **review of the System**.

The **next meeting of Committee 1** will take place in person in autumn 2024.