

ICRP Committee 1 Meeting

2 – 5 November 2021– Remote (virtual) meeting

Meeting hosted by D Laurier, C Badie, G Woloschak. All C1 members attended (fully/partially). Following the new elections in July 2021, C1 includes 18 members from 10 countries with expertise in biology, genetics, human medicine, mathematics and statistics, physics and dosimetry, epidemiology, and radioecology. Four representatives from IAEA, MELODI, UNSCEAR and WHO were also invited.

Update on Task Groups and Working Parties

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 Ruhm). Final draft report for approval for public consultation expected for end of 2022.

TG99 RAPs Monograph (Chair J Garnier-Laplace). Initial scope to be revised to consider recent ICRP publications on dosimetry and coordinated with TG105. A revised ToR has been prepared and circulated to C4 /C1 for validation. Christelle Adam-Guillermin is proposed as new Co-Chair. Draft report for review by critical reviewer expected for end of 2022.

TG 111 Factors Governing the Individual Response of Humans to Ionizing Radiation (Chair S Bouffler). Has been very active with several web conference meetings. A publication of systematic reviews as the work progresses is expected. An on-demand presentation has been given at the ICRP Workshop on “The Future of RP” in October 2021. Draft for review by critical reviewers expected for end of 2022.

TG115 Risk and Dose Assessment for Radiological Protection of Astronauts (Chair W Ruhm). Web meeting held on September 2021. An on-demand presentation given at ICRP Workshop on “The Future of RP” in October 2021. Draft for review by critical reviewers expected for 2023.

TG118 Relative Biological Effectiveness (RBE), Quality Factor (Q), and Radiation Weighting Factor (w_R) (Chair G Woloschak). Kick-off meeting held Sept 22, 2021. A report replacing ICRP #92 will be written with inclusion of new NASA, C2 and C4 members. Workshops on specific topics will be organized (Contribution of neutrons to the dosimetry of the A bomb survivors and Problems using different reference radiation for RBE). Draft for review by critical reviewers expected for 2024.

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). Established in May 2021. First meeting Sept 9, 2021. Activities to be coordinated with UNSCEAR expert group ‘CircuDis’. An on-demand presentation given at ICRP Workshop “The Future of RP”. Draft for review by critical reviewers expected for 2025.

Working parties updates were provided on **Detriment Parameters not Related to Radiation** (Chair M Hauptmann), **Radiation-Induced Effects on Offspring and Future Generations** (Co-Chairs S Salomaa and R Wakeford), and **Cancer Risk Models to Calculate Detriment** (Chair R Wakeford).

Other topics discussed during the meeting

Next ICRP recommendations were discussed on the basis of the 2 recently published articles “Keeping the ICRP recommendations fit for purpose” and “Areas of research to support the System of Radiological Protection”.

Update on ongoing research projects and recent literature were provided by C1 members and invited representatives. An extra session (virtual) was organized on 29 November.

Next meeting of Committee 1 will take place remotely in March-April 2022. Next face-to-face meetings will take place in Vancouver, 6-13 November in 2022 and in October/November 2023.