

ICRP Committee 4 Meeting

November 18-24, 2019 – Adelaide, Australia

ICRP Committee 4 (C4) met in conjunction with the 5th ICRP Symposium and covered several issues.

Existing exposure situations: C4 discussed how the comments received for *Publication 142 on Radiological Protection from NORM in Industrial Processes (ex-TG76)* were addressed. Its publication is expected at the end of 2019. The committee also reviewed the report of *TG98 on Exposures arising from Contaminated Sites* and provided advice to progress the draft.

Topical applications reports: C4 reviewed the report of *TG97 on Surface and Near-Surface Waste Disposal* where development is continuing in close coordination with critical reviewers. The Committee discussed *TG106 on Mobile Sources*, and the connection of this topic with radiation safety culture and accidents. C4 also discussed the initiation of work of TG 115 on *RP in Space Travel*, which is followed by a corresponding *C4 WP*.

Response to Fukushima: C4 discussed the main comments received (>300) on the draft report of *TG93 on Protection in the Event of a Nuclear Accident* and how these comments can be addressed. A key issue is the reference level, and its use at different points in the emergency and long-term situation. C4 also decided to propose a new TG updating Publication 96 with a broader scope covering *RP for radiation emergencies and malicious events*.

Environmental protection: Information was provided about the final report of *TG72 on Biota Radiation Weighting Factors for Reference Animals and Plants*, which publication is expected in the next months. C4 discussed the on-going work of *TG105 on Considering the Environment when Applying the System of Radiological Protection*. Its report will propose a way for the integration of the protection of humans and non-human species in the ICRP system, by using case studies in the different exposure situations. C4 also reviewed, jointly with C1, the work of *TG99 on Reference Animals and Plants (RAPs)*, including the changes related to RAPs and DCRLs.

Foundations and fundamentals: C4 discussed the *General Plan for the Review of the ICRP System*. In that perspective, C4 discussed jointly with C3 the *Mapping of ICRP Annals*, with the purpose to identify Publications still valid, obsolete or needing an update, as well as the gaps and the new concepts to be integrated in the future General Recommendations. C4 also contributed to an effort to update the *ICRP Research Priorities* and discussed the programme of work of *TG114 on Reasonableness and Tolerability in the System of RP*. The C4 contribution to the *ICRP Glossary* is almost complete.

Interaction with other Committees: C4 met with C1 and discussed *TG91 on DDREF* and *TG102 on Detriment Calculation* as well as the issue of environment (see above). C4 also discussed the work plan of WP on RP in Space Travel in

relation to the newly established C1 *TG on Risk and Dose Assessment for Radiological Protection of Astronauts (TG115)*. With C3, C4 discussed the ongoing work of *TG109 on Ethics in RP for Medical Diagnosis and Treatment*, which purpose is to explicit the link between ethical values in RP and in medicine, as well as of *TG110 on RP in Veterinary Practices*, which now cover the protection of professionals, the public and animals as patients. C3 and C4 also considered the possibility to create a new *TG on production of radio-pharmaceuticals*. Finally, information was provided to C4 about the report of *C2 TG79 on Effective Dose*, which has been approved for publication.