## 10th International Conference on High Level Environmental Radiation Areas (ICHLERA 2022)



ID de Contribution: 80 Type: Invited talk

## Up-to-date dose conversion factors for radon isotopes and their historical overview

mercredi 29 juin 2022 09:00 (30 minutes)

New radon conversion factors (DCF) for radon/thoron progeny have been presented in the ICRP Publication 137 (2017). There used to be a large difference in the DCF between those derived from epidemiological (ICRP 65) and from dosimetric approaches (ICRP 66). This revision results in a higher DCF than before. Hereafter a variety of radon issues may arise. In the present talk, the following topics will be presented:

- 1. Characteristics of radon and progeny
- 2. How to assess the effective dose due to inhalation of radon progeny
- 3. Lung dosimetry and influential parameters for dose assessment
- 4. Review of dose conversion factors in published data
- 5. Thoron issues

## References

- [1]. International Commission on Radiological Protection (ICRP); ICRP Publication 65, 1993, Ann. ICRP, 23
- [2]. International Commission on Radiological Protection (ICRP); ICRP Publication 66, 1994, Ann. ICRP, 24
- [3]. International Commission on Radiological Protection (ICRP); ICRP Publication 137, 2017, Ann. ICRP, 46
- [4]. International Commission on Radiological Protection (ICRP); ICRP ref 4836-9756-8598, 2018

Auteur principal: Prof. TOKONAMI, Shinji

Orateur: Prof. TOKONAMI, Shinji

Classification de Session: Radon, Thoron & Decay Products Measurements