WHY THIS TOPIC? —

The International Commission on Radiological Protection system of protection is based on three fundamental principles: justification, optimisation and dose limitation; they apply to three types of situations of exposure to ionising radiations: (those that can be) planned, (in case of) emergency and existing (from sources that already exist when decisions to control them are made) along with three categories of exposures: occupational (i.e. workers), medical patients and the public (ICRP, 2007, ICRPedia).

Radon and NORM (naturally occurring radioactive materials) exposures have been categorized by ICRP as existing exposure situations (ICRP 2014; 2016; Lecomte, 2016; ICRP, 2019). However, both types of sources present specificities, making the choices about the type of exposure situation and the categories of exposure somewhat challenging and areas of confusion [Cool, 2013]. In some circumstances (for example in [Euratom, 2013]), radon and NORM are considered as planned exposure situations and exposure controlled as such. ICRP has recognized that further clarity is needed on the interpretation of exposure situations [Clément, 2021].

ICRP has insisted that the optimisation principle is a systematic process that apply irrespectively of the exposure situation: fundamentally, the exposure of the individuals should always be kept ALARA below certain dose criteria, be it called “reference level” or “dose constraint” depending on the case. Nonetheless, the protection strategy should be designed based on the characteristics of the situation and the circumstances of the exposure and a graded approach might be appropriate.

The application of the optimisation principle is the cornerstone of the activities of the European ALARA Network. Furthermore, the EAN also aims to assist ICRP in the practical implementation of its recommendations and to monitor the development of the new general recommendations [EAN, 2021], as a Special Liaison Organisation.

The EAN would like to examine how the optimisation principle has been applied in the case of NORM and radon (at workplace or in other circumstances) and whether the choices of exposure type and exposure categories affect the practical implementation of ALARA.

A webinar will be organised to present an overview of experiences and discussed if the elements of the optimisation process could be influenced by the type of exposure situation/categories of exposure:

- Selection of the appropriate dose criteria (dose constraint, reference level);
- Dose assessment;
- Identification of the protective options and selection of the best option;
- Implementation, monitoring of exposure and iteration.
**PROGAMME. —**
The programme of the webinar is the following:

| 15-20 min | The philosophy of the ICPR system applied to radon and NORM | Mr. Jean-François Lecomte Co-author of [ICRP, 2014, 2019], ICRP Emeritus, France |
| 15-20 min | Practical experiences from Norway in NORM remediation | Mrs. Marte Holmstrand, DSA, Norway |
| 15-20 min | Feedback on radiation protection for NORM facilities and underground workplaces | Mrs. Katerina Navratilova Rovenska SURO, Czech Republic & RadoNorm Partner |
| 10 min | ☕️... mini break ...☕️ | |
| 15-20 min | Radon potential map of the UK – updating and implementation | Mrs. Tracy Gooding UKHSA, United Kingdom |
| 15-20 min | Optimisation in protection from radon: problems and proposals | Mr. Francesco Bochicchio ISS, Italy |
| (~ 30 min/) | Round Table | |

**IN PRACTICE. —**
- The participation to the webinar is free of charge and will be held on Zoom.
- The webinar will not be recorded.
- Interested individuals needs to register: [https://akademie.ages.at/european_alara_network_webinar_-challenges_in_applying_the_radiation_protection_system_in_the_management_of_norm_and_radon](https://akademie.ages.at/european_alara_network_webinar_-challenges_in_applying_the_radiation_protection_system_in_the_management_of_norm_and_radon)
- Registration is the opportunity to send questions/topics you would like to see discussed during the round table.
- Participant might use the chat to ask question for the Round table.
- A synthesis of the presentation and discussion will be produced and published on the EAN website.

**REFERENCES. —**

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