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Atoms for Peace and Development

Free Webinars on Occupational Radiation Protection

30 June 2021 **14:00 CEST**

30 June 2021

Nuclear decommissioning: main aspects of management, planning and conduct of occupational exposure control

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Welcome to the ORPU webinar

WEBINAR ON
Nuclear decommissioning: main aspects of management, planning & conduct of occupational exposure control

30 June 2021 14:00- 15:00 CEST

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ORPU webinar series

30 June 2021

Nuclear decommissioning: main aspects of management, planning and conduct of occupational exposure control

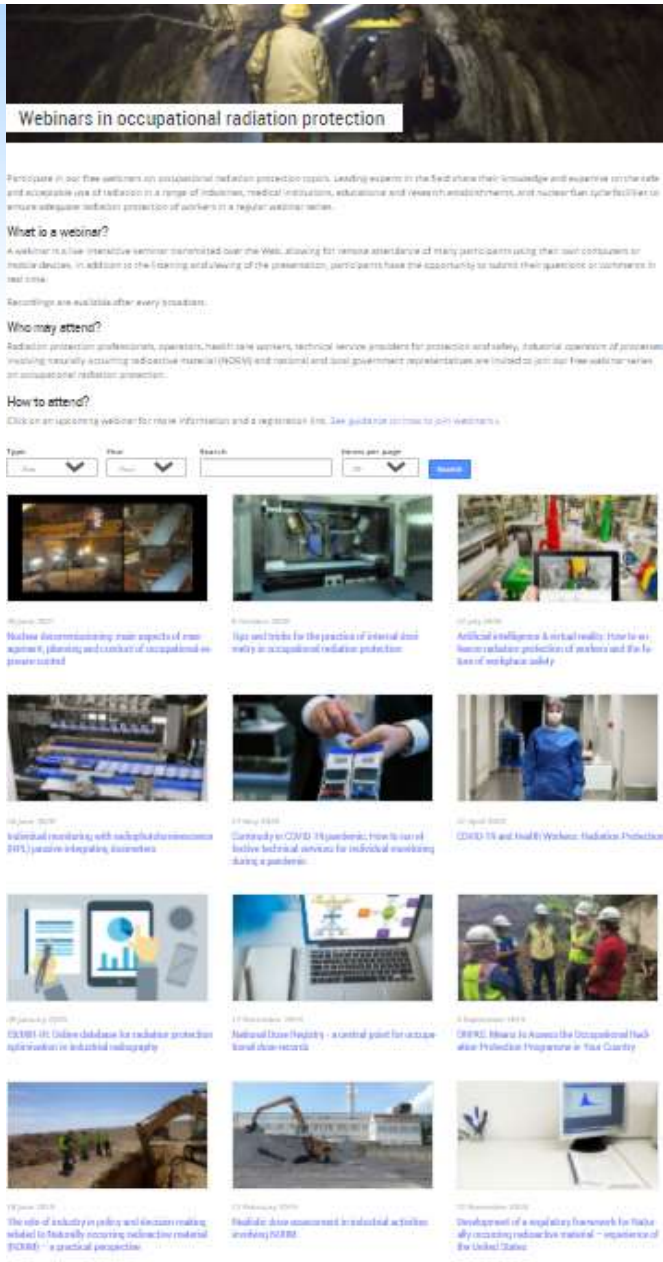
Moderator: H. Burçin Okyar

Occupational Radiation Protection Unit
Section of Radiation Safety and Monitoring
Division of Radiation, Transport and Waste Safety
Department of Nuclear Safety and Security

WEBINAR on Nuclear decommissioning: Main aspects of management, planning & conduct of Occupational Exposure Control

Organized jointly with

- Oak Ridge Institute for Science and Education (ORISE)
- Radiological Services for Radiation Safety & Control Services, Inc. (RSCS)



https://www.iaea.org/topics/radiation-safety/webinars

Learning objectives

- IAEA GSR Part 3, GSG-7 and TECDOC 1954 approach for nuclear decommissioning
- Decommissioning strategy
- Regulatory requirements, records and information systems
- Management and analysis of occupational radiation exposure records
- Practical information on occupational radiation protection and examples from the nuclear industry
- Independent verification
- Practices and lessons learned

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Derek Hagemeyer

Mr Hagemeyer serves as Director of the Independent Environmental Assessment and Verification (IEAV) program at the Oak Ridge Institute for Science and Education (ORISE). In this role, Mr Hagemeyer is responsible for the team that provides independent verification for the U.S. Department of Energy (DOE), U.S. Nuclear Regulatory Commission (NRC) and other federal and state agencies. When DOE or NRC facilities undergo decontamination and decommissioning, Mr Hagemeyer's team serves as the independent group that verifies and informs these agencies whether the remediated sites meet the release criteria to ensure the safety of people and the environment.

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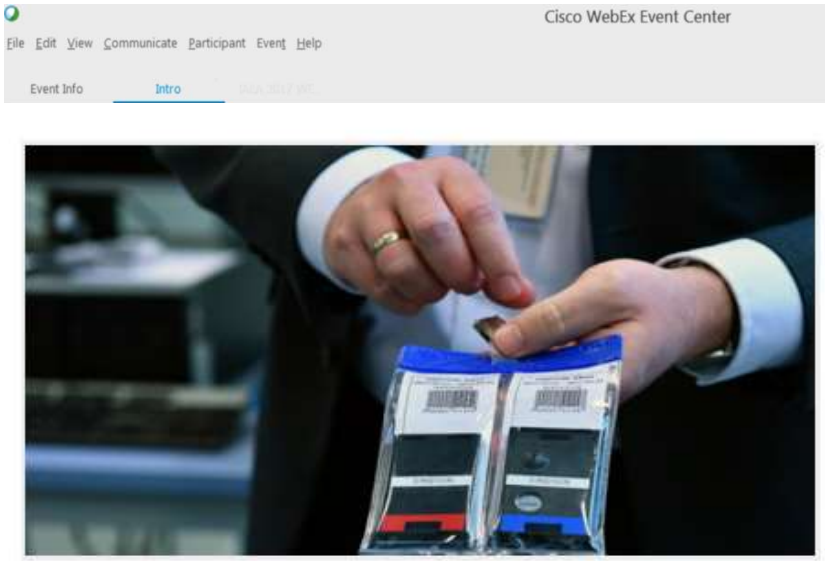
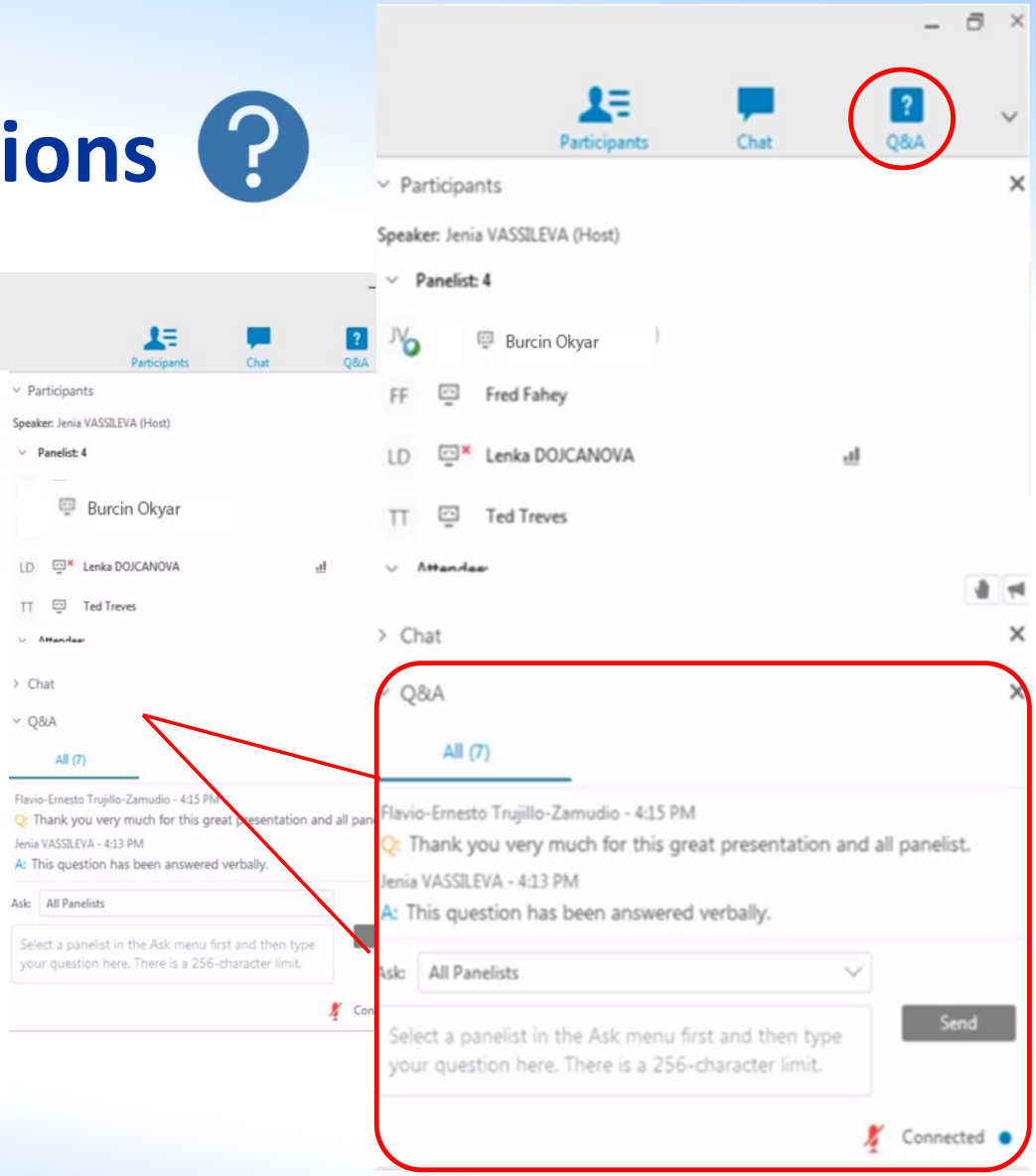
Ellen Anderson

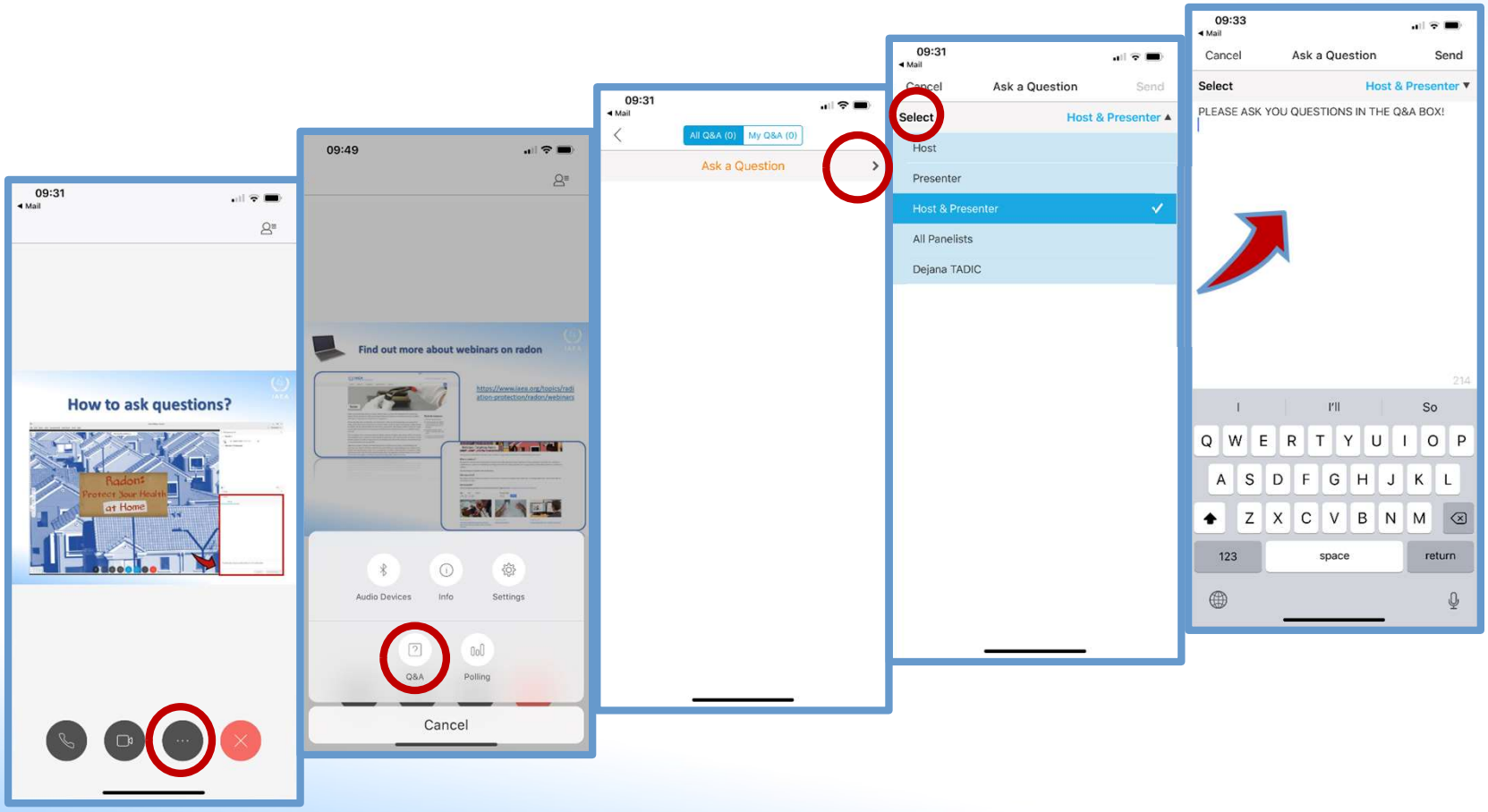
Mrs Anderson is the Director of Radiological Services for Radiation Safety & Control Services, Inc. (RSCS). RSCS provides consulting services and project management oversight in all aspects of radiation protection including commercial nuclear power plants as well as government, educational and industrial facilities during operations and decommissioning phases.

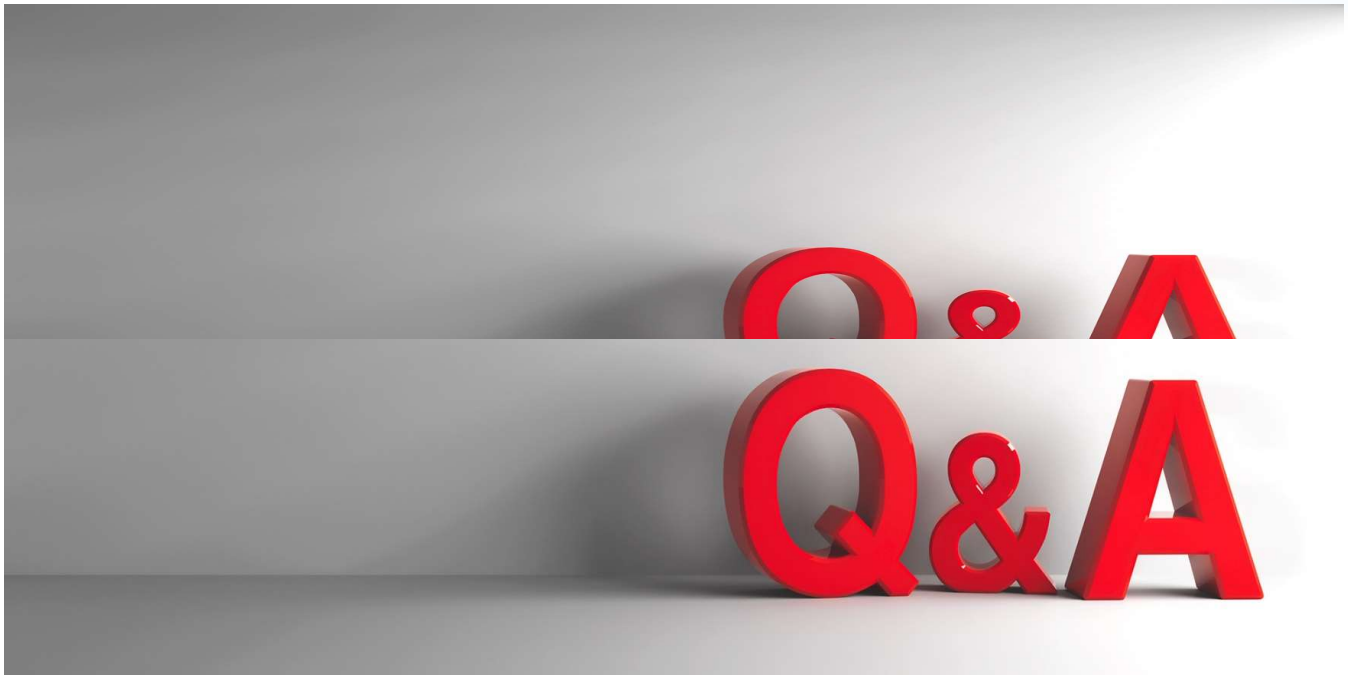
How to ask questions





How to ask questions?




Q&A

Book your seat (Upcoming webinar)

- Webinar on Eye dosimetry- Monitoring and Assessment
- 25 August 2021 at 2 pm (CEST)

Watch the announcements @
ORP webinars web-page: https://www.iaea.org/topics/radiation-safety/webinars

2021 Technical Meetings

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Technical Meeting on the Assessment and Evaluation of the Occupational Radiation Protection Appraisal Service (ORPAS)

Virtual Event

13 – 17 September 2021

Ref. No.: EVT2004313

Information Sheet

Introduction

The IAEA Occupational Radiation Protection Appraisal Service (ORPAS) was established to advise Member States on ways to strengthen and enhance the legislative and regulatory infrastructure for occupational radiation protection, technical services relating to protection and safety, such as services for personal dosimetry and the calibration of monitoring and measuring equipment, and practical implementation of Member States' arrangements for occupational radiation protection. The key objective of ORPAS review is to determine whether the host country has made adequate arrangements for occupational radiation protection and whether these arrangements are functioning to the extent that the practical provisions for occupational radiation protection are effective and generally optimized.

The IAEA safety standard in the area of radiation protection is Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards, GSR Part 3. Review against GSR Part 3 is the core component of the ORPAS process. Other safety requirements such as Governmental, Legal and Regulatory Framework for Safety, GSR Part 1 (Rev. 1), Leadership and Management for Safety, GSR Part 2, and Safety Assessment for Facilities and Activities, GSR Part 4, are also used in an ORPAS review to cover all facilities and activities where occupational radiation protection is applied, as well as technical service providers and regulatory bodies.

During an ORPAS mission, recommendations and suggestions may be offered to the host country. Recommendations made are related to items of direct relevance to safety as referenced in IAEA Safety Requirements; suggestions made relate to items that, while not essential to ensure compatibility with IAEA Safety Requirements, may enhance the effectiveness of the national arrangements on occupational radiation protection against the guidance presented in IAEA Safety Guides. Good practices identified may also be documented for consideration by other States.

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Technical Meeting on Artificial Intelligence for Nuclear Technology and Applications

Virtual Event

25–29 October 2021

Ref. No.: EVT2004304

Information Sheet

Introduction

Artificial Intelligence (AI) refers to a collection of technologies that combine numerical data, algorithms and continuously increasing computing power to develop systems capable of tracking complex problems in ways similar to human logic and reasoning. AI technologies can analyse large amounts of data to learn how to complete a particular task, a technique called machine learning.

AI is advancing exponentially and can already sort and interpret massive amounts of data from various sources to carry out a wide range of tasks, and help tackle many of the world's most urgent challenges.

For example, AI's ability to recognize data patterns and analyse high-resolution images from satellites, drones or medical scans can improve responses to humanitarian emergencies, signal drought or floods by detecting global hydro-climatic changes, help doctors identify cancers and other diseases, increase agricultural productivity, track animal and marine migrations. In fact, AI will be an integral part of the Agency's new ZODIAC project helping to identify and contain future zoonotic disease outbreaks.

In addition, AI is used in the nuclear industry to augment automation, for refuelling and maintenance planning, to train nuclear personnel for normal and abnormal operation, for in-service inspections, evaluation and characterization of cracks and flaws, in reactor design, safety, security, real-time risk assessment, long term operation/lifetime applications, to enhance workplace safety and for on-line dosimetry based on computer simulations. However, the transformative power of AI also comes with challenges, including issues of transparency, trust and security, and other ethical concerns.

The IAEA, as the global focal point for nuclear cooperation, is backing AI and its enormous potential to help accelerate the safe, secure and peaceful uses of nuclear technologies and aid progress towards the United Nations' Sustainable Development Goals.

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Technical Meeting on the Establishment of a Web-based Information Exchange for Occupational Radiation Protection in Industries involving NORM (ISEMIR-N)

Virtual Event

22 – 26 November 2021

Ref. No.: EVT1903979

Information Sheet

Introduction

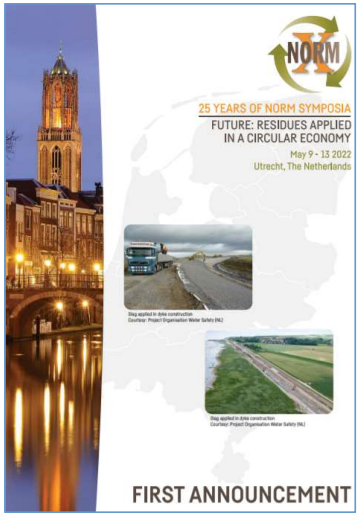
Many industrial processes involving naturally occurring radioactive material (NORM) follow a common cycle with several stages from the extraction of materials to the fabrication and the use of products and by-products, including the generation of discharges, residues and waste. One of the pillar activities of such a work programme is the worker protection in different industrial processes which is generally multi-hazards situations and radiological risk generally is not always dominant. An integrated approach to safety and protection is recommended by the IAEA though it's Occupational Radiation Protection Programme, bearing in mind that the radiation protection system is not necessarily the driving force and development of such an integrated approach requires involvement of combination of expertise.

Majority of Member States has not well-established regulatory systems (or even approaches) for the proper radiation protection of workers in industrial operations involving NORM. GSR Part 3 requires an integrated and graded approach for protection of workers where consideration of non-radiological hazards is integrated with radiological hazards, and the approach to protection is optimised (graded) so that the use of various radiation protection programme elements is consistent with the hazards while not imposing unnecessary burdens. Major criteria for such evaluation (even for regulatory decision making) require realistic dose assessment including different exposure scenarios. For workers, the approach starts with characterisation of the exposure situation, and integration, as necessary, of specific radiation protective actions to complement the protection strategy already in place and in this regard, ISEMIR-N is expected to play a crucial role, in the form of a database, to provide some sort of guidance to Member States. The ISEMIR-N has been developed a part of ISEMIR Platform, incorporated into an online web tool for information exchange for regular collection and maintenance of data on occupational exposure, and to

NORM X Symposium

- 25 years of NORM Symposia. Future: residues applied in a circular economy
- Utrecht / the Netherlands
- **9-13 May 2022**
- Cooperation agreement wit the Dutch Society for Radiation Protection (NVS)- 23 Feb 2021

https://normx2022.com/



International NORM X Symposium: first announcement released

Under the auspices of the Dutch Society for Radiation Protection (NVS), the Dutch foundation Radiation Protection Symposium North-West Europe is organizing the 10th international symposium on NORM to take place 9–13 May, 2022, in Utrecht, Netherlands. The theme will be '25 years of NORM Symposia. Future: residues applied in a circular economy'.

First announcement >>
Event flyer >>
Website >>

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Thank you for your participation

IAEA ORPNET: https://nucleus.iaea.org/sites/orpnet/home/SitePages/Home.aspx
IAEA ORP Webinars: https://www.iaea.org/topics/radiation-safety/webinars

We invite proposal submissions for consideration in our ORP webinar series
Contact us at Occupational-Protection-Unit.Contact-Point@iaea.org