

# Free Webinars on Occupational Radiation Protection

**8 October 2020 © 14:00 CEST** 



8 October 2020

Tips and tricks for the practice of internal dosimetry in occupational radiation protection

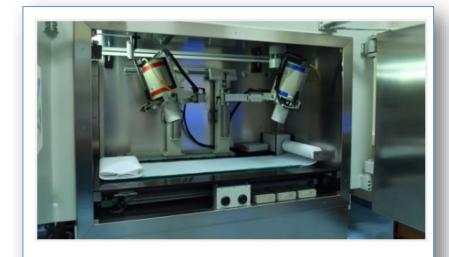


# Welcome to the 11th ORPU/RSTSU webinar



**WEBINAR ON** Tips and Tricks for the **Practice of Internal Dosimetry in Occupational Radiation Protection** 





8 October 2020

Tips and tricks for the practice of internal dosimetry in occupational radiation protection

# 11<sup>th</sup> ORPU / RSTSU webinar

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



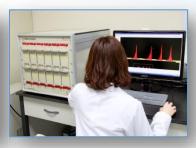
WEBINAR on Tips and tricks for the practice of internal

IAEA

dosimetry in occupational radiation protection

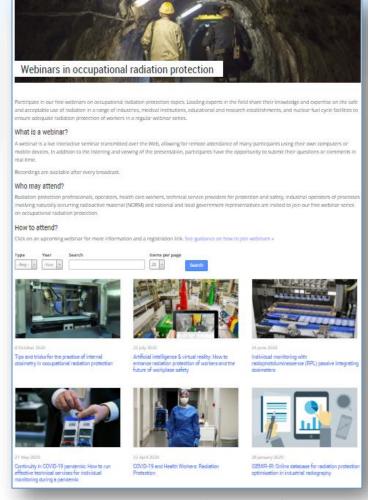






### Organized jointly with

- European Radiation Dosimetry Group (EURADOS)
- Latin America Occupational Radiation Protection Optimization Network (REPROLAM)
- Asian Radiation Dosimetry Group (ARADOS)



https://www.iaea.org/topics/radiationsafety/webinars

### **Learning objectives**



- IAEA GSR Part 3 requirements & GSG-7 guidance for TSPs for internal dosimetry
- Roles and duties of internal dosimetry services & monitoring methods
- Monitoring programmes for a wide range of exposure conditions and assess internal doses from the results of monitoring
- Assessment of internal doses from monitoring measurements
- Accuracy requirements, QA requirements, and criteria for approval and accreditation
- Computer based solutions for monitoring and internal dose assessment
- Status of work to implement ICP-MS for analysis of excreta





**RSM**: https://www.iaea.org/about/radiation-safety-and-monitoring-section

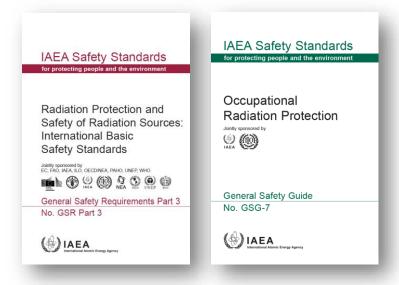
Welcome note from Miroslav Pinak Head of Radiation Safety and Monitoring Section/ NSRW



Webinar on "Tips and tricks for the practice of internal dosimetry in occupational radiation protection"

### GSR Part 3 & GSG-7





- Occupational Exposure Assessment
- The regulatory body shall establish and enforce requirements for the monitoring and recording of occupational exposures (*authorization or approval* of service providers for individual monitoring and calibration services)
- Employers shall be responsible for making arrangements with authorized or approved dosimetry service providers that operate under a QMS for assessment of occupational exposures of workers
- Process and criteria in GSG-7

### **GSG 7: the approval process**



- Submission of a report containing information
  - Dosimetry system
  - Accreditation of the management system in accordance with a relevant international standard
  - Certification that the dosimetry system is traceable to the appropriate national standard
  - Irradiation performance test at unknown doses in unknown situations
  - On-site inspection and assessment of the laboratory
  - Performance testing



### María Antonia López

Head of the Internal Dosimetry Group of the CIEMAT (Spain) Member of C2 of the ICRP since 2017 and ICRP TG 112 on Emergency Dosimetry since 2020

Involved with the EURADOS since 2001 and been part of the EURADOS Council and coordinating WG 7 on internal dosimetry from 2008 to 2018

Member of the ISO WG25 on Population Monitoring Following Radiological Accidents and ISO WG13 on Internal Dosimetry

Member of the WG n internal contamination dosimetry of WHO's REMPAN





### **Nancy Puerta Yepes**

Head of the Internal Dosimetry Department of the Nuclear Regulatory Authority (Argentina)

Currently coordinating the REPROLAM group on Internal Dosimetry

Physical Engineer and has a MSc degree in science physics from National University of Colombia, a master's degree in medical physics from National University of Cuyo, and a post degree in Radiation Protection and Safety of Radiation Sources, serves as a professor of internal dosimetry of this postgraduate specialization





### Wi-Ho Ha

Ph.D. in nuclear engineering from Hanyang University in Seoul (South Korea)

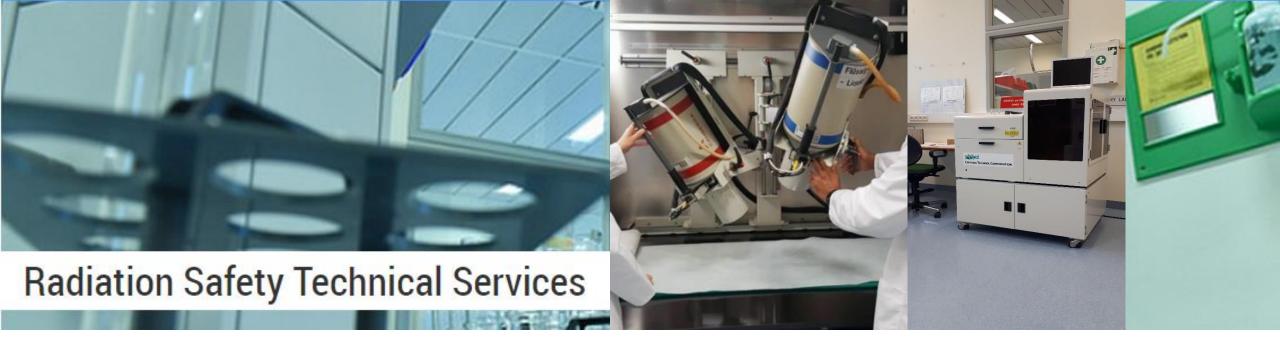
Since 2006, he has worked at the National Radiation Emergency Medical Center of KIRAMS as a senior researcher in the field of radiation dosimetry

Head of the Health Physics Laboratory at the KIRAMS for more than 10 years.

Working at the Nuclear Safety and Security Commission as a visiting research scientist

Served as the Secretary of the ARADOS





**RSTSU**: <a href="https://www.iaea.org/topics/workers/radiation-safety-technical-services">https://www.iaea.org/topics/workers/radiation-safety-technical-services</a>



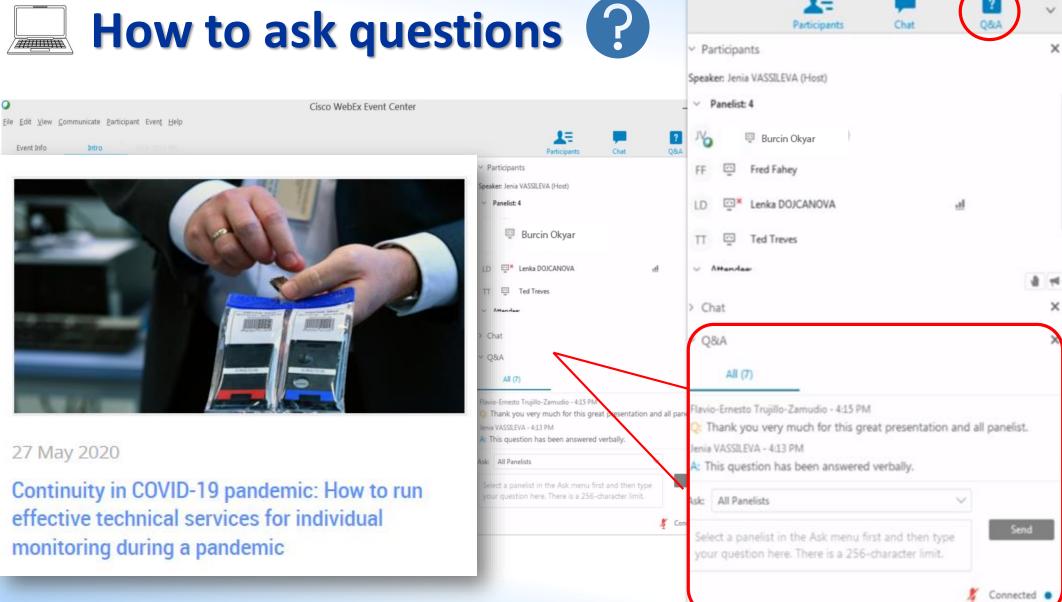
David Tucker Unit Head, RSTSU









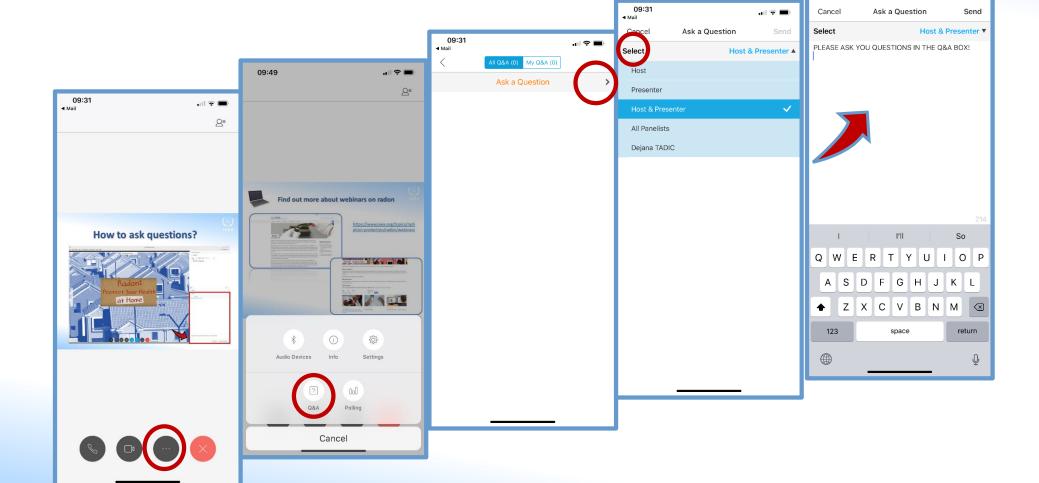




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# How to ask questions?







# **Book your seat (Upcoming webinars)**



### Topics to be addressed;

- Establishment and Operation of Management Systems for TSPs
- Recognition as a third party and laboratory accreditation demonstration of fulfilment

# International Conference on the Management of



# **NORM** in Industry



(Virtual Event) International Conference on the Management of Naturally Occurring Radioactive Materials (NORM) in Industry

Conference on the Management of Naturally Occurring Radioactive Materials (NORM) in Industry 2020

- Home
- Workshops
- News

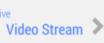
Owing to the COVID-19 pandemic, this conference will be held virtually.

Participants who would like full access to the virtual conference platform, must be officially designated and can register by sending Participation Form (Form A) to the IAEA through their national authority. Designations previously received for this event remain valid and participants are not required to resubmit their participation form.

Persons who would like to officially register as observers at the conference can do so by completing Participation Form (Form A) and sending it directly to the IAEA. By registering as an observer, you will have access to the conference related material (e.g. abstracts, presentations, posters) and other limited functions within the virtual conference platform.

Persons who simply would like to follow discussions during the conference can do so via the live-stream button which will be available on this website.

Over the past few decades, many studies have found elevated natural radionuclide activity concentrations in wastes and residues from a wide range of industrial activities that are not part of the nuclear fuel cycle. Since then, despite some successful cases, most Member States have been struggling to find feasible and implementable approaches for the proper management of naturally occurring radioactive material (NORM) wastes and residues.



### Related resources

- Announcement and Call for
- Participation Form (Form A)
- □ Draft Programme
- General Information and Logistics
- Conference Flyer
- List of Invited Organizations
- Essays
- % IAEA INDICO

### Conference App





Contact



International Conference on the Management of Naturally Occurring Radioactive Material (NORM) in Industry

> **IAEA Headquarters** Vienna, Austria 19-30 October 2020 Ref. No: IAEA-CN-287; EVT1902890

### Scientific Secretaries

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### Administration and organization:

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Email: Conference.Contact-Point@iaea.org

### 20 October 2020 - 12:00 - 13:30 (CET)

Workshop on the Oil and Gas Industry, with a focus on Decommissioning of Oil and Gas Facilities

21 October 2020 - 12:00 - 13:30 (CET)

Workshop on Uranium and other Metal Resources in Mining and Milling

22 October 2020 - 12:00 - 13:30 (CET)

Workshop on Phosphates for Sustainable Development: Fertilizers and Phosphogypsum in the Circular Economy

23 October 2020 - 12:00 - 13:00 (CET)

Workshop on the Sampling and Radiological Characterization of NORM Residues and Wastes

26 October 2020 - 14:00 - 16:00 (CET)

NORM 2020 Discussion Lobby – The Circular Economy in the Context of the Sustainable Development - Its Meaning to the NORM Industry

27 October 2020 - 12:00 - 13:30 (CET)

Workshop of Groundwater 360°

28 October 2020 - 12:00 - 13:00 (CET)

Workshop on Communicating the Radiological Risks of NORM

29 October 2020 - 12:00 - 13:30 (CET)

**Exhibitors Workshop** 

**Draft programme** 

Workshops

https://www.iaea.org/events/norm-2020

Secretariat: NORM2020@iaea.org

# **International Conference on Radiation Safety:**



Improving Radiation Protection in Practice



(Virtual event) International Conference on Radiation Safety: Improving Radiation Protection in Practice

9-20 November 2020

### International Conference on Radiation Safety 2020

- > Home
- > Young Professionals
- > Programme
- > News

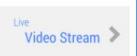
### Owing to the COVID-19 outbreak, this conference will now be held virtually.

Participants who would like full access to the virtual conference platform, must be officially designated and can register by sending Participation Form (Form A) through their national authority (please refer to the Announcement and Call for Papers) to the IAEA. Participants who take an active role in the event, like chairpersons or presenters of an oral or poster paper have to be officially designated.

Participants who would like limited access to the virtual conference platform, can register as an observer by submitting Form A directly to the IAEA. Observers have access to conference related material (e.g. abstracts, presentations, posters) and to other limited functions within the virtual conference platform such as the Young Professional Programme.

Persons who simply would like to follow discussions during the conference can do so via the live-stream button which will be available on this website.

The IAEA is organizing the International Conference on Radiation Safety: Improving Radiation Protection in Practice virtually from 9 to 20 November 2020. The Conference is being organized in cooperation with the European Commission, the Food and Agriculture Organization of the United Nations, the International Labour Organization, the Nuclear Energy Agency of the Organisation for Economic Co-operation and Development, the Pan American Health Organization, the United Nations Environment



### Related resources

- Programme
- Announcement and Call for Papers
- Participation Form (Form A)
- Exhibition Opportunities
- List of Invited Organizations
- % INDICO submissions
- Guidelines for Technical Sessions
- % Guidelines for Virtual Poster Presentations

### Conference App











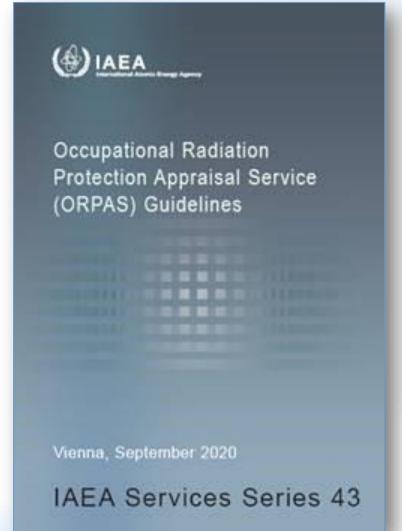
Info on local time

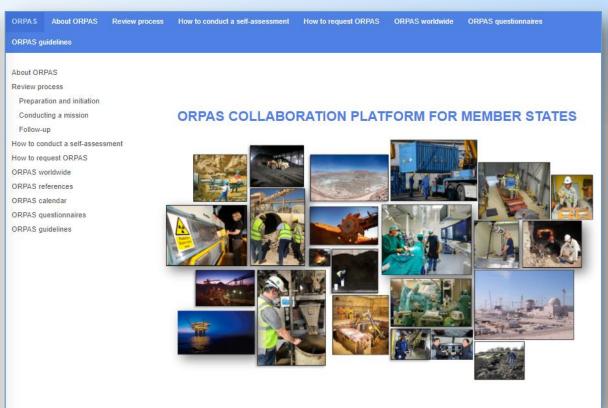
https://www.iaea.org/events/international-conference-on-radiation-safety-2020

Secretariat: RP2020@iaea.org

### **New Publication: ORPAS Guidelines**







https://gnssn.iaea.org/main/ORPAS/SitePages/Home.aspx

https://www-pub.iaea.org/MTCD/Publications/PDF/SVS-43web.pdf



IAEA ORPNET: https://nucleus.iaea.org/sites/orpnet/home/SitePages/Home.aspx IAEA ORP Webinars: <a href="https://www.iaea.org/topics/radiation-safety/webinars">https://www.iaea.org/topics/radiation-safety/webinars</a>

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