

# **International Conference on Radiation Safety**

**Improving Radiation Protection in Practice**

9–20 November 2020

## **PROGRAMME**

Organized by the  
International Atomic Energy Agency (IAEA)

In cooperation with  
EC, FAO, ILO, NEA/OECD, PAHO, UNEP, WHO

Virtual Event

**Conference President:** R. Velasco García, Spain

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**Programme Committee:**

S. Magnusson, Chairman, ISL  
A. Kalaiziovski, AUS  
R. Gutterres, BRA  
V. Smith, IRE  
M. Munoz Gonzales, SPA  
L. Ben Omrane, TUN  
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D. Allard, USA  
T. Colgan, IAEA

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**IAEA Secretariat:**

Scientific Secretary: T. Colgan, NSRW  
Scientific Support: L. Dojcanova. NSRW  
Conference Coordinators: M. Khaelss, MTCD  
S. Padmanabhan, MTCD  
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K. Vather, NSRW  
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**Working Language:** English

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**Resolutions:** No resolutions may be submitted for consideration on any subject; no votes will be taken.

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# TIMETABLE

## Monday, 9 November 2020

Time	Session No.	Session Title / Break
11:30–13:00		Opening Session
13:00–13:30		Break
13:30–15:00		Opening Session II: Emerging Challenges in Radiation Protection

## Tuesday, 10 November 2020

Time	Session No.	Session Title / Break
11:30–13:00		Applying the Principles of Justification and Optimization
13:00–13:30		Break
13:30–15:00		Dose Constraints and Reference Levels
15:30–17:00		<i>Young Professional Development Paths: Opening</i>

## Wednesday, 11 November 2020

Time	Session No.	Session Title / Break
09:30–11:00		<i>Young Professional Development Paths: Radiation Safety Role Models &amp; Virtual Networking</i> <span style="float: right;"><i>Closed Session</i></span>
11:30–13:00		Applying the Graded Approach
13:00–13:30		Break
13:30–15:00		Round Table: Applying the Concepts of Exemption and Clearance

## Thursday, 12 November 2020

Time	Session No.	Session Title / Break
11:30–13:00		Planned Exposure Situations
13:00–13:30		Break
13:30–15:00		Round Table: What can Radiation Protection Learn from the Covid-19 Pandemic?
15:30–17:00		<i>Young Professional Development Paths: Radiation Safety Role Models &amp; Virtual Networking</i> <span style="float: right;"><i>Closed Session</i></span>

## Friday, 13 November 2020

Time	Session No.	Session Title / Break
11:30-15:00		Side Event <i>"Global Survey of Public Exposure" organized by the United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)</i>

## Monday, 16 November 2020

Time	Session No.	Session Title / Break
11:30–13:00		Emergency Exposure Situations
13:00–13:30		Break
13:30-15:00		Side Event <i>"Establishing the Protection Strategy for Emergency Exposure Situations: International Guidance and National Experience" organized by the IAEA's Incident and Emergency Centre (IEC)</i>

## Tuesday, 17 November 2020

Time	Session No.	Session Title / Break
11:30–13:00		Conservatism in Radiation Protection
13:00–13:30		Break
13:30–15:00		Safety Culture

## Wednesday, 18 November 2020

Time	Session No.	Session Title / Break
11:30-13:00		Side Event <i>"The Concept of Reasonableness in Radiation Protection" organized by the International Radiation Protection Association (IRPA)</i>
13:00–13:30		Break
13:30–15:00		Existing Exposure Situations

## Thursday, 19 November 2020

Time	Session No.	Session Title / Break
11:30–13:00		Round Table: Challenges in the Regulation of Non-Medical Human Imaging
13:00–13:30		Break
13:30–15:00		Risk Communication and Risk Management

## Friday, 20 November 2020

Time	Session No.	Session Title / Break
11:30–13:00		Presentation by the International Commission on Radiological Protection (ICRP) followed by a panel discussion
13:00–13:30		Closing Session

## MONDAY, 9 November 2020

11:30-13:00 OPENING SESSION

Rapporteur: D. Telleria, IAEA

Name	Designating Member State/Organization	Title
<b>T. Colgan</b>	Conference Scientific Secretary	General Introduction
<b>R. Velasco García</b>	Conference President	Conference Perspective and Intended Outcomes
<b>R. Grossi</b>	IAEA Director General	Welcome Address

### Welcome from Cooperating International Organizations

<b>Q. Liang</b>	Food and Agriculture Organization of the United Nations (FAO)	Opening Address
<b>J. Pintado Nunes</b>	International Labour Organization (ILO)	Opening Address
<b>J. Fitzgerald</b>	Pan American Health Organization (PAHO)	Opening Address
<b>J. Liu</b>	United Nations Environment Programme (UNEP)	Opening Address
<b>N. Yamamoto</b>	World Health Organization (WHO)	Opening Address
<b>M. Garribba</b>	European Commission (EC)	Opening Address
<b>W.D. Magwood IV</b>	Nuclear Energy Agency of the Organisation for Economic Co-operation and Development (NEA/OECD)	Opening Address

### Reports from the Regional BSS Workshops

<b>M. Tzortzis</b>	Cyprus	Regional Challenges in Radiation Protection: Europe
<b>W. Teck Hoo</b>	Singapore	Regional Challenges in Radiation Protection: Asia and the Pacific
<b>P. Zunino</b>	Argentina	Regional Challenges in Radiation Protection: Americas
<b>W. Muhogora</b>	Tanzania	Regional Challenges in Radiation Protection: Africa

### Closing of the Session

## MONDAY, 9 November 2020

**13:30–15:00**      **OPENING SESSION II**  
**The Challenge of Low Doses**

**Chairperson:**    **C. Flannery, USA**

**Co-Chair:**        **G. Kumar Jain, India**

**Rapporteur:**     **B. Kellogg, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Keynote</b>	<b>A. Gonzalez</b>	Argentina	Emerging Challenges in Radiation Protection
<b>Discussion and Q &amp; A</b>			

## TUESDAY, 10 November 2020

**11:30–13:00**      **SESSION 3**  
**Applying the Principle of Justification and Optimization**

**Chairperson:**    **M. Kawooya, Uganda**

**Co-Chair:**        **F. Guerra Paiva, Brazil**

**Rapporteur:**     **D. Gilley, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Keynote</b>	<b>T. Schneider</b>	France	Reasonableness and tolerability in the system of radiological protection: ICRP on-going reflections
<b>Speakers</b>	<b>J. Malone</b>	Ireland	Radiological imaging of asymptomatic individuals: guidance for justification, governance and decision making in CT-IHA
	<b>N. Nurhadiansyah</b>	Indonesia	Justification Process of Non-medical Human Imaging for Detection Purpose in Correctional Institution for Drugs Crime in Indonesia
	<b>N. Mutanga</b>	Zimbabwe	Optimization of dose to skin of fingers for nuclear medicine workers
<b>Discussion and Q &amp; A</b>			



## TUESDAY, 10 November 2020

**13:30–15:00**      **SESSION 4**  
**Dose Constraints and Reference Levels**

**Chairperson:**    **D. Hussein, Egypt**

**Co-Chair:**        **F. Eze, Nigeria**

**Rapporteur:**     **J. Vassileva, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Keynote</b>	<b>R. Bly</b>	Finland	Development and Use of Dose Constraints and Reference Levels – an overview
<b>Speakers</b>	<b>A. Saravana Kumar</b>	India	Establishment of diagnostic reference levels (DRLs) in diagnostic radiology in India
	<b>R. Ndi Samba</b>	Cameroon	Analytical approach to accompany the development of national diagnostic reference levels
	<b>D. Allard</b>	USA	Radiation Protection Regulations in the USA - A Needed Update
<b>Discussion and Q &amp; A</b>			

## TUESDAY, 10 November 2020

**15:30–17:00**      **YOUNG PROFESSIONAL SESSION**

**Chairperson:**    **P. Johnston**  
**Director, IAEA Division of Radiation, Transport and Waste Safety**

	Name	
<b>Keynote</b>	<b>R. Grossi</b>	IAEA Director General
<b>Speakers</b>	<b>B. Batandjieva-Metcalf</b>	Secretary of UNSCEAR
	<b>N. Macharia</b>	IAEA Human Resources Specialist
<b>Discussion and Q &amp; A</b>		

## WEDNESDAY, 11 November 2020

**11:30–13:00**      **SESSION 5**  
**Applying the Graded Approach**

**Chairperson:**    **A. Al Shehhi, UAE**

**Co-Chair:**        **Z. Tahiri, Morocco**

**Rapporteur:**     **J. Bosnjak, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Keynote</b>	<b>P. Ahmet</b>	United Kingdom	Radiation risk reduction - a graded and pragmatic operational approach
	<b>C. Salata</b>	Brazil	Development of a methodology based on graded approach to define the frequency of inspections at radiotherapy facilities
<b>Speakers</b>	<b>M. Cervera</b>	USA	The application of the graded approach to the regulation of radioactive sources in the United States
	<b>A. Hayani</b>	Indonesia	Development of Indonesia's regulation concerning grading approach monitoring dose period for worker on plan exposure situation
<b>Discussion and Q &amp; A</b>			

## WEDNESDAY, 11 November 2020

**13:30–15:00**      **SESSION 6**  
**Round Table on Applying the Concepts of Exemption and Clearance**

**Chairperson:**    **K. Petrova, Czech Republic**

**Co-Chair:**        **S. Ahmad, Pakistan**

**Rapporteur:**     **J. Brown, IAEA**

	Name	Designating Member State/Organization	Title of Paper
	<b>R. Coates</b>	IRPA	Exemption and Clearance – the practitioners' viewpoint
<b>Speakers</b>	<b>S. Mundigl</b>	EC	Requirements on Exemption and Clearance in the European Union
	<b>H. Pappiniseri</b>	IAEA	Key issues in developing updated guidance on exemption
	<b>V. Ljubenov</b>	IAEA	Key issues in developing updated guidance on clearance
<b>Panellists</b>	<b>A. Larsson</b>	Sweden	
	<b>A. Canoba</b>	Argentina	
	<b>S. Thierfeldt</b>	Germany	
<b>Discussion and Q &amp; A</b>			

## THURSDAY, 12 November 2020

**11:30–13:00**      **SESSION 7**  
**Planned Exposure Situations**

**Chairperson:**    **H. Ogino, Japan**

**Co-Chair:**        **V. Kliaus, Belarus**

**Rapporteur:**     **B. Okyar, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Speakers</b>	<b>M. Légaré</b>	Canada	Risk Mitigation for Therapeutic Nuclear Medicine Patients Unexpectedly Returning for Medical Care
	<b>F. Perez Gonzalez</b>	Cuba	Evaluation of establishment and practical implementation of GSR part 3 requirements in a general hospital
	<b>L. Dimmick</b>	USA	Release of patients containing radioactive material following medical procedures
	<b>E. Kunarsih</b>	Indonesia	Strengthening the radiation protection and safety optimization for worker of health facilities in Indonesia through implementation of dose constraint at operational stage
<b>Panellist</b>	<b>T. Colgan</b>	IAEA	
<b>Discussion and Q &amp; A</b>			

## THURSDAY, 12 November 2020

**13:30–15:00**      **SESSION 8**  
**Round Table on What Can Radiation Protection Learn from the Covid-19 Pandemic**

**Chairperson:**    **R. Gutterres, Brazil**

**Co-Chair:**        **I. Ilizástigui Arissó, Cuba**

**Rapporteur**      **M. Hajek, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Speakers</b>	<b>R. Pacheco</b>	IAEA	Impact of the COVID-19 Pandemic on Regulatory Activities for the Safety of Radiation Sources
	<b>C. Baureus Koch</b>	Sweden	Challenges posed by Covid-19 for the Nuclear Industry
	<b>J. Malone</b>	Ireland	What Covid-19 Has Taught Us about Ethics in Radiation Protection and vice-versa

	Name	Designating Member State/Organization	Title of Paper
	<b>P. Jimenez</b>	PAHO	Public Health Measures in the Context of Covid-19 versus the International System of Radiation Protection
<b>Panellists</b>	<b>D. Tucker</b>	IAEA	
	<b>E. Lazo</b>	NEA/OECD	
	<b>F. Ollite</b>	Mauritius	
<b>Discussion and Q &amp; A</b>			

## FRIDAY, 13 November 2020

11:30–15:00      **SESSION 9**

### **SIDE EVENT**

*organized by the United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)*

*Global Survey of Public Exposure*

## MONDAY, 16 November 2020

11:30–13:00      **SESSION 10**  
**Emergency Exposure Situations**

**Chairperson:**    **V. Smith, Ireland**

**Co-Chair:**      **P. Kopka, Poland**

**Rapporteur**      **K. Kouts, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Keynote</b>	<b>E. Buglova</b>	IAEA	IAEA Safety Standards in the Area of Emergency Preparedness and Response: Reference Levels, Generic Criteria and Operational Criteria
<b>Speakers</b>	<b>R. De La Vega</b>	IAEA	Arrangements for termination of a nuclear or radiological emergency
	<b>J. Garnier-Laplace</b>	NEA	Enhancing preparedness is key for post-accident recovery; first conclusions from dedicated OECD/NEA expert groups
	<b>A.Al-Haj</b>	Saudi Arabia	Strengthening the radiation emergency preparedness program in Saudi Arabia: strategic approach
<b>Discussion and Q &amp; A</b>			

## MONDAY, 16 November 2020

13:30–15:00      **SESSION 11**

### **SIDE EVENT**

*organized by the IAEA's Incident and  
Emergency Centre (IEC)*

*Establishing the Protection Strategy for  
Emergency Exposure Situations:  
International Guidance and National  
Experience*

## TUESDAY, 17 November 2020

11:30–13:00      **SESSION 12**  
**Conservatism in Radiation Protection**

**Chairperson:**      **J. Malone, Ireland**

**Co-Chair:**        **T. Shatona, Namibia**

**Rapporteur**       **A. Wilding, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Keynote</b>	<b>R. Coates</b>	United Kingdom	Prudence and the Hidden Burden of Conservatism
<b>Speakers</b>	<b>R. Seitz</b>	USA	Deliberate bias in safety assessments - helping or hurting stakeholder confidence?
	<b>J. Marble</b>		
	<b>B. Lorenz</b>	Germany	Optimization after minimization squaring the circle in radiation protection
	M. Lips	Switzerland	Reflections on low-dose radiation, the misconceptions, reality and moving forward
<b>Discussion and Q &amp; A</b>			

## TUESDAY, 17 November 2020

13:30–15:00      **SESSION 13**  
Safety Culture

Chairperson:    K. Mrabit, Morocco

Co-Chair:        C. Raith, Austria

Rapporteur      R. Cruz Suarez, IAEA

	Name	Designating Member State/Organization	Title of Paper
Keynote	B. Le Guen	France	Joint international initiatives to strengthen radiation protection culture in different professional environments
Speakers	J. Abbie Flores	Philippines	Safety in radiation oncology (SAFRON) database on reporting of radiotherapy incidents and near misses: a single institution experience on radiotherapy events reporting and learning system
	H. Koike	Japan	Consciousness analysis on safety culture improvement in radiation facilities in Japan
	W. Truppa	Argentina	The application of the risk matrix methodology, to avoid radiological accidents in industrial radiography
Discussion and Q & A			

## WEDNESDAY, 18 November 2020

11:30–13:00      **SESSION 14**  
  
**SIDE EVENT *organized by the  
International Radiation Protection  
Association (IRPA)***  
  
***The Concept of Reasonableness in  
Radiation Protection***

## WEDNESDAY, 18 November 2020

**13:30–15:00**      **SESSION 15**  
**Existing Exposure Situations**

**Chairperson:**    **M. Perez, WHO**

**Co-Chair:**        **C. Fitzpatrick, USA**

**Rapporteur**       **K. Kelleher, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Speakers</b>	<b>S. Fijuljanin</b>	Slovenia	Slovenia: radon in homes and workplaces National Radon Programme implementation
	<b>H. Yasuda</b>	Japan	Practical approach for radiological protection in aviation - how can we assess the cosmic radiation exposures of individual flyers?
	<b>A. Kinahan</b>	Ireland	Improvements in the estimation of ingested dose from natural radioactivity in the Irish diet
	<b>S. Estier</b>	Switzerland	Managing Radium Legacies from the watch industry: the Swiss experience
<b>Panellist</b>	<b>C. Blackburn</b>	FAO	

## Thursday, 19 November 2020

**11:30–13:00**      **SESSION 16**  
**Round Table: Challenges in the Regulation of Non-Medical Human Imaging**

**Chairperson:**    **A. Kalaiziovski, Australia**

**Co-Chair:**        **C. Bladh, Sweden**

**Rapporteur**       **R. Pacheco, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Speakers</b>	<b>O. German</b>	IAEA	Justification and authorization in relation to non-medical human imaging
	<b>D. Remedios</b>	UK	Application of non-medical human imaging in sport and for age assessment
	<b>A. Reis</b>	WHO	Ethical aspects of non-medical human imaging
	<b>A. Lapasta</b>	Argentina (tbc)	
	<b>S. Niu</b>	ILO	
	<b>N. Nurhadiansyah</b>	Indonesia	
	<b>C. Massey</b>	IAEA	
<b>Discussion and Q &amp; A</b>			

## Thursday, 19 November 2020

**13:30–15:00**      **SESSION 17**  
**Risk Communication and Risk Management**

**Chairperson:**    **D. Allard, USA**

**Co-Chair:**        **Y. Anpilova, Ukraine**

**Rapporteur**      **L. Dojcanova, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Speakers</b>	<b>P. Bryant</b>	UK	Perceived vs. Actual - the challenge of communicating radiation risk in the modern world
	<b>A. Leupin</b> <b>R. Scheidegger</b>	Switzerland	How to improve the communication of the radiation protection system to stakeholders and the public
	<b>K. Mrabit</b>	Morocco	Information and Communication in radiation safety: Challenges and good practices from the Moroccan experience
	<b>J. Lindberg</b>	UK	An appraisal of the impacts of “radiophobia” on effective radiation protection, and the need for a new communications paradigm
<b>Discussion and Q &amp; A</b>			

## FRIDAY, 20 November 2020

**11:30–13:30**      **SESSION 18**  
**The Future Direction of Radiation Protection and Closing**

**Chairperson:**    **S. Magnusson, Iceland**

**Co-Chair:**        **M. Daniels, IAEA**

**Rapporteur**      **T. Colgan, IAEA**

	Name	Designating Member State/Organization	Title of Paper
<b>Keynote</b>	<b>C. Cousins</b>	ICRP	The Future Direction of Radiation Protection
<b>Panellists</b>	<b>F. Charalambous</b>	Australia	
	<b>E. Amaral</b>	Brazil	
	<b>L. Mpete</b>	South Africa	
	<b>P. Bryant</b>	UK	
	<b>M. Boyd</b>	USA	
<b>13:00 –</b>	<b>R. Velasco García</b>	Spain	Summary of the Conference by the Conference President
<b>13:30</b>	<b>J-C. Lentijo</b>	IAEA	Closing of the conference by the Deputy Director General – Department of Nuclear Safety and Security



<b>POSTER OVERVIEW</b> <b>(for papers marked in red, no poster pdf has been received)</b>			
<b>Id</b>	<b>Title</b>	<b>Country</b>	<b>Primary authors</b>
7	The Effect of the Air Conditioning System Operation on Radon Concentration at the Radioactive Waste Installation in Indonesia	Indonesia	Adi Wijayanto
8	Establishment and use of Diagnostic Reference Levels (DRLs) in Medical imaging in Uganda	Uganda	Hadijah Ndagire
10	ARCHITECTURAL STANDARDS AND RADIATION PROTECTION CRITERIA AS A BASIS OF ENVIRONMENTAL DESIGN THE NUCLEAR MEDICINE UNITS TO REDUCE UNJUSTIFIED DOSES	EGYPT	Nadia Sirag
11	Measurement of Radon and Radon Progeny in Abu-Tartour Open-Pit Phosphate Mine in Egypt	Egypt	Nadia Helal; Mohamed Hassan; Ebrahim Eid; Rizk Abdel Moneim
12	Radiation protection optimization in fixed industrial radiography based PHITS Monte Carlo code simulation	Cameroon	CEBASTIEN JOEL GUEMBOU SHOUOP; MAURICE NDONTCHUENG MOYO
14	Awareness of Cosmic Radiation and its Hazards Amongst Air Travelers and Aviation workers in Mallam Aminu International Airport, Kano, Nigeria	NIGERIA	PETER EMMANUEL MSHELIA
15	Shifting Peoples' mind and introducing safety culture on Radiation	Ethiopia	TADELE NEGASH REGASSA
16	Challenges of Communicating Radiation and Nuclear regulatory Information in Partnership with Potential Interest Groups	Ethiopia	Awoke Shiferaw TIRUNEH
17	Stepping-up Radiation Safety Culture in Ghana: What the Radiation Worker and the General Public Should Know	Ghana	Abdallah M. A. Dawood
20	Evaluation of the protective effect of lead glasses on occupational eye dose in interventional cardilogic procedures; does its benefit the same for all groups of radiation workers?	Iran	Azam Asgari; Ali Asghar Parach
21	Evaluation of Brain CT Findings for Assessment of Unnecessary CT Examinations; a multi-center study in Iran	Iran	Ali Asghar Parach; Azam Asgari
22	Is there a concern about extremities radiation dose for interventional cardiologists in catheterization lab	Iran	Azam Asgari; Ali Asghar Parach

<b>POSTER OVERVIEW</b> <b>(for papers marked in red, no poster pdf has been received)</b>			
<b>Id</b>	<b>Title</b>	<b>Country</b>	<b>Primary authors</b>
23	ESTIMATED DOSE OF STAFF IN NUCLEAR MEDICINE BY POST STUDY AND WASTE MANAGEMENT.	Mauritania	Mohamed Lemine DIENG; El Waghef Mahoudh ; Mohamed Lemine DIENG; el waghef Mahfoudh
26	NATURAL AND ARTIFICIAL RADIONUCLIDES PRESENT IN CUBAN FOODSTUFFS	Cuba	ISIS MARIA FERNANDEZ GOMEZ; GLORIA VIRGEN RODRIGUEZ CASTRO; JORGE CARRAZANA GONZALES; EDUARDO CAPOTE FERRERA
27	Identification of stakeholders' engagement to optimize protection strategies for emergency management	Ethiopia	DANIEL KIDANE KIFELEW
28	ENHANCING RADIATION SAFETY THROUGH OCCUPATIONAL RADIATION PROTECTION IN NIGERIA	Nigeria	Godwin Ekong; Yau Idris; ISA SAMBO
30	Design, installation and operation of automated drainage system for PET-CT facility: An optimized approach to protect personnel and environment in nuclear medicine facilities	Egypt	Mostafa Elashmawy
31	COMPETENCE IN RADIATION PROTECTION: Analysis of a module on radiation safety and knowledge management offered to a Postgraduate Educational Course (PGEC)	BRAZIL	FERNANDO BARCELLOS RAZUCK
32	Regulatory system for setting of radioactive liquid and airborne discharge limits	Russian Federation	Albert Shapovalov
35	Number of Segments and MU Effect on Out-of-Field Dose in Different Intensity Modulated Radiotherapy Cases	Egypt	ahmed Abdelaal; Ehab Attalla; Elshemey Wael
38	Determination of the Radiation Shielding Properties of Magnetite Aggregate Concretes	Iraq	Qays Rwashti
39	Radiation Protection Assessment of Ionization Inspection System kind (Rapiscan-GaRDS)	IRAQ	faez waheed
40	DOSE ASSESSMENT IN NORMAL OPERATION AND ACCIDENTAL SITUATION AS PART OF THE SAFETY ASSESSMENT OF A	Cuba	Ilieva Ilizastigui

<b>POSTER OVERVIEW</b> <b>(for papers marked in red, no poster pdf has been received)</b>			
<b>Id</b>	<b>Title</b>	<b>Country</b>	<b>Primary authors</b>
	CENTRALIZED WASTE STORAGE FACILITY.		
41	SAFETY IN RADIATION ONCOLOGY (SAFRON) DATABASE ON REPORTING OF RADIOTHERAPY INCIDENTS AND NEAR MISSES: A SINGLE INSTITUTION EXPERIENCE ON RADIOTHERAPY EVENTS REPORTING AND LEARNING SYSTEM	Philippines	Jerickson Abbie Flores
42	Analysis of demand and supply of technical services for non-power nuclear science and technology applications in Tanzania.	Tanzania	Abdalah Kileo
45	PERCEIVED VS. ACTUAL - THE CHALLENGE OF COMMUNICATING RADIATION RISK IN THE MODERN WORLD	United Kingdom	Peter Bryant
46	Using the Dielectric Constant as Function for Neutron Flux in Extreme Environment: to Determine Approached Doses.	Iraq	Faeq Al-Janabi
47	INFLUENCES OF CRISIS IN SYRIA ON OCCUPATIONAL EXPOSURE MONITORING	Syrian Arab Republic	Ibrahim Othman; Mohammad Al-Masri; Abdalkader Bitar
49	ESTABLISHING LOCAL DIAGNOSTIC REFERENCE LEVELS (LDRL) FOR A TYPICAL FLUOROSCOPIC EXAMINATION IN TWO RADIOLOGICAL IMAGING INSTITUTIONS IN GHANA	GHANA	Joana Otoo; MARY BOADU
51	TOWARDS ESTABLISHING NATIONAL DIAGNOSTIC REFERENCE LEVEL FROM COMPUTED TOMOGRAPHY IN SYRIA - A PILOT STUDY	Syrian Arab Republic	YEHIA LAHFI
53	ANNUAL AND SEASONAL VARIATIONS OF INDOOR RADON CONCENTRATIONS IN ACCRA, GHANA	Ghana	Francis Otoo
54	ETHICS AND ETHICAL TRAINING SCENARIOS IN RADIOLOGICAL PROTECTION FOR MEDICAL DIAGNOSIS AND TREATMENT	United States	Kimberly Applegate
55	Risk Mitigation For Therapeutic Nuclear Medicine Patients Unexpectedly Returning For Medical Care	canada	Michèle Légaré

<b>POSTER OVERVIEW</b> <b>(for papers marked in red, no poster pdf has been received)</b>			
<b>Id</b>	<b>Title</b>	<b>Country</b>	<b>Primary authors</b>
56	EFFECTS OF HIGH-DOSE RADIATION ON LUMINESCENCE PROPERTIES OF COSMIC RAYS' DETECTORS BASED ON (Y0.7Gd0.3)2O3: EU3+ NANOPARTICLES	Serbia	Ivica Vujcic; Slobodan Masic
57	A MONTE CARLO STUDY ON THE SHIELDING MATERIALS FOR IR-192 GAMMA SOURCE	Malaysia	Suffian Mohamad Tajudin
59	IMPORT OF RADIOACTIVE SOURCE Co-60 TO SERBIA FROM THE EUROPEAN UNION COUNTRIES: HARMONIZATION OF LEGISLATION AND STRENGTHENING INTERNATIONAL COOPERATION	Serbia	Slobodan Masic; Ivica Vujcic
60	Modeling of atmospheric dispersion and radiation dose for a hypothetical accident in Radioisotope production facility	Egypt	Hesham Elkhatib
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62	CREATING AN EFFECTIVE ASSESSMENT OF NUCLEAR SAFETY CULTURE	Saudi Arabia	Ibrahim Alrammah
63	BARITE PROPORTION EFFECT ON NEUTRON SHIELDING BY FLUKA SIMULATION CODE	Iraq	Sameer AL-OBAIDI
64	IMPLEMENTATION OF RADIATION SAFETY MEASURES AND NUCLEAR SECURITY STANDARDS FOR EMERGENCY PREPAREDNESS AND RESPONSE FOR HIGH DOSE RATE BRACHYTHERAPY SEALED RADIOACTIVE SOURCE USED IN A MEDICAL RADIATION FACILITY	India	Gourav Kumar Jain
66	A CONTRIBUTION TO STRENGTH SAFETY CULTURE IN THE RADIONUCLIDE THERAPY WITH INTEGRATED RISK ANALYSIS IN CUBA	Cuba	Zayda Haydee Amador Balbona; Antonio Torres Valle
68	OCCUPATIONAL DOSE MONITORING FOR RADIOLOGY STAFF AT INSTITUT KANSER NEGARA: FIVE YEARS EVALUATION	Malaysia	SITI NORSYAFIQAH MOHD MUSTAFA
70	Estimating Excess Cancer Risk due to Digital Diagnostic Radiography Examination in Northern Iran	Islamic Republic of Iran	Ali Shabestani Monfared; Khatere Shamsi; Fatemeh Niksirat Sustani

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72	COMPARATIVE ANALYSIS OF THE EXTERNAL EXPOSURE OF DIFFERENT PROFESSIONAL GROUPS OF MEDICAL STAFF OF DUSHANBE CITY OF THE REPUBLIC OF TAJIKISTAN	Tajikistan	Ulmas Mirsaidov
73	RADON MONITORING IN THE TERRITORY OF TAJIKISTAN	Tajikistan	Ulmas Mirsaidov
74	THE CONTRIBUTION OF THE ROMANIAN SOCIETY FOR RADIOLOGICAL PROTECTION TO THE IMPROVEMENT OF THE SAFETY CULTURE IN ROMANIA	ROMANIA	CONSTANTIN MILU
75	Challenges encountered by operators in developing countries to achieve radiation safety in medical facilities	Uganda	Grace Kukiriza
76	Appropriateness of CT imaging requisitions in selected health facilities: A CASE STUDY OF A LOW RESOURCE SETTING	Uganda	Harriet Nalubega Kisembo; Richard Mabumba; Ezra Nsereko Kato; Dina Husseiny Salama; Michael Grace Kawooya
77	Operational radiation safety for the management of legacy disused sealed radioactive sources in Cameroon	Cameroon	Jean Félix BEYALA ATEBA
78	MONITORING ON OCCUPATIONAL EXPOSURE OF RADITION WORKERS FOR RADIATION PROTECTION IN MYANMAR	Myanmar	Sandar Aung -
79	CAPACITY DEVELOPMENT OF RADIATION METROLOGY IN MYANMAR	Myanmar	May Oo Khaing -
80	ESTABLISHMENT OF DIAGNOSTIC REFERENCE LEVELS (DRLs) IN DIAGNOSTIC RADIOLOGY IN INDIA	INDIA	SARAVANA KUMAR ADHIMOOLAM
81	IMPROVEMENT IN THE MONITORING OF TRITIUM IN HYDROSPHERE OF UKRAINE	Ukraine	Yevheniia Anpilova

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85	OPERATIONAL RADIATION PROTECTION IN NUCLEAR FUEL CYCLE FACILITIES: INNOVATION AND ADVANCEMENTS IN SAFETY ASPECTS	INDIA	Mukund Kulkarni
86	Improving Radiation Protection through Establishing a National Secondary Standard Dosimetry Laboratory in Myanmar	Myanmar	San San Yu
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89	EMERGENCY EXPOSURE OF THE PUBLIC AND WORKERS DUE TO A HYPOTHETICAL PARTIAL CORE MELT ACCIDENT IN TEHRAN RESEARCH REACTOR	Islamic Republic of Iran	Seyed Mahdi Hosseini Pooya; Mirshahram Hosseinipناه; hassan Abbasi
91	OPTIMIZATION OF PROTECTION IN VARIOUS NUCLEAR/RADIOLOGICAL RESEARCH PRACTICES IN IRAN	Islamic Republic of Iran	Seyed Mahdi Hosseini Pooya
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95	THE IMPLEMENTATION OF SAFETY- SECURITY – SAFEGUARD INSPECTORS'S GUIDE IN CAMEROON The benefits of the integrated approach for Radiation Protection	Cameroon	Richard Ndi Samba; Augustin SIMO
96	STRENGTHENING THE RADIATION PROTECTION AND SAFETY OPTIMIZATION FOR WORKER OF HEALTH FACILITIES IN INDONESIA TROUGH	Indonesia	Endang Kunarsih

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112	Long-range Strategy of Iran National Plan for Indoor Radon Concentration Survey	Iran	Samaneh Baradaran; Mehran Taheri
113	Dose Assessment of Occupational Exposure induced Radon Progeny Inhalation in Alisadr Tourist Cave	Iran	Samaneh Baradaran; Mehran Taheri
114	An assessment of thyroid dose reduction in intraoral radiology by changing in collimation geometry	Iran	Samaneh Baradaran; Mehran Taheri; Mehran Bagheri; Vahid Changizi
116	TYPICAL RADIATION DOSES FOR CHILDREN UNDERGOING COMMON COMPUTED TOMOGRAPHY EXAMINATIONS IN SUB-SAHARAN AFRICA: A CASE STUDY OF UGANDA CANCER INSTITUTE	Uganda	MILKA GHEBREGHZIABIHER Habte; Harriet Nalubega Kisembo; FAITH Ameda; Awusi KAVUMA; Geoffrey Erem
117	DEVELOPMENT OF IN-HOUSE REFERENCE ACTIVATED CHARCOAL CARTRIDGE STANDARD FOR AIRBORNE RADIOIODINE MONITORING IN NUCLEAR MEDICINE	Thailand	KRISANAT CHUAMSAAMARKKEE
118	PREDICTING LIVER TRANSAMINASES ALTERATIONS FROM LOW-DOSE MEDICAL RADIATION EXPOSURE THROUGH MACHINE LEARNING (ML) APPROACH	Pakistan	Saman Shahid; Khalid Masood; Abdul Waheed Khan
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124	<b>SLOVENIA: RADON IN HOMES AND WORKPLACES National Radon Programme implementation</b>	<b>Slovenia</b>	<b>Selma Fijuljanin</b>
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127	ENHANCING RADIATION PROTECTION IN NORTH AFRICA: A COMMON STRATEGY FOR AFROSAFE RAD AND ARABSAFE CAMPAIGNS	algeria	Sarah HAGI; Dina HUSSEINI; MICHAEL KAWOOYA; Boudjema MANSOURI
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130	JOINT ACTIONS OF THE REPUBLIC OF TAJIKISTAN AND USA IN THE FIELD OF ENSURING ON SAFETY AND SECURITY OF IONIZING RADIATION SOURCES.	Tajikistan	Jabor Salomov; Bakhtiyor Barotov
131	NATURAL RADIOACTIVITY LEVEL MEASUREMNET IN SOME ROOT VEGETABLES MOSTLY USED IN MYANMAR	Myanmar	Moe Phyu Hlaing
132	<b>EVALUATION OF EDUCATION AND TRAINING ACTIVITIES ON RADIATION SAFETY IN TURKEY FOR THE FIVE YEARS PERIOD (2013-2017)</b>	<b>Turkey</b>	<b>Celal Tuğrul Zeyrek; Doğan Babayiğit</b>
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138	ANALYSIS OF THE DOSE GENERATED BY CT SCAN IN A PET/CT EXAMINATION USING TWO DIFFERENT PROTOCOLS	Brazil	Fernanda Guerra Paiva; Priscila Santana; Arnaldo Prata Mourao Filho
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142	Radiological Characterization and Safety during Decommissioning of a Nuclear Reactor	Egypt	Mohamed SHAAT; Rowayda Abou Alo
143	SURVEY OF RADIATION RISK COMMUNICATION – The Case of the Conversion of the Nigerian Research Reactor	Nigeria	Uwaisu Adam
144	Assessment of radiation safety in ophthalmic brachytherapy using Monte Carlo simulation	Thailand	Putthiporn Charoenphun
145	radiation safety to the public and waste management of radioactive iodine in patients treated for hyperthyroidism and thyroid cancer	THAILAND	Dutsadee SUTTHO
147	THE NUCLEAR SCIENCE MUSEUM: AN INTERDISCIPLINARY LEARNING ENVIRONMENT TO IMPROVE CITIZENS' COMPREHENSION OF RADIATION RISKS AND BENEFITS	Brazil	Helen Khoury; Denise Levy
148	TREND OF RADIATION SAFETY TRAINING FOR HAMAD MEDICAL CORPORATION RADIATION WORKERS	Qatar	Huda Al Naemi; Mohammad Hassan Kharita; Antar Aly
151	Radiological Safety Assessment Due to Severe Accidental Conditions of VVER-1200 Reactor of Bangladesh	Bangladesh	Mohammad Mizanur Rahman; Md. Ajijul Hoq; Md. Abu Khaer
152	OCCUPATIONAL RADIATION EXPOSURE FOR RADIATION WORKERS IN HAMAD MEDICAL CORPORATION	Qatar	Mohammad Hassan Kharita; huda al naemi

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157	OPTIMIZATION OF RADIATION PROTECTION FOR THE CONTROL OF OCCUPATIONAL EXPOSURE	Nigeria	simeon ESSEYIN; SCHANDORF CYRIL
158	ARTIFICIAL RADIONUCLIDES IN AIR, SOIL, GRASS MILK AFTER THE FUKUSHIMA ACCIDENT AND THE EFFECTIVE DOSES DUE TO THE DIFFERENT PATH-WAYS	Greece	ALEXANDRA IOANNIDOU; FLAVIA GROPPi
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161	OPTIMIZATION OF PEDIATRIC COMPUTED TOMOGRAPHY PROCEDURES	Brazil	PAULO COSTA; VIVIAN GUERRA; NERISSIAN DENISE
162	Relation among Indoor Radon Concentration, Climate, and Smoking Habit to Lung Cancer	Indonesia	ahmad ciptadi syuryavin
163	Insvetigation of Occupational Radiation Exposure From C-Arm Fluoroscopy Guided Procedures	Namibia	Vera Uushona
164	THE AARST CONSORTIUM STANDARD ON PROTOCOL FOR THE COLLECTION, TRANSFER AND MEASUREMENT OF RADON IN WATER — AN UPDATE	United States	Uttam Saha
165	Reasonableness and Tolerability in the System of Radiological Protection: ICRP on-going reflections	France	Thierry Schneider
169	GRADED APPROACH IN THE APPLICATION OF SAFETY REQUIREMENTS FOR ON-SITE LOADING AND ACCEPTANCE TESTING OF THE LEKSELL GAMMA KNIFE	MALAYSIA	MOHD NATHIR MOHD KAMARI
170	Measuring occupational radiation dose to the radiographers performing cardiac catheterization laboratory procedures at Sri Jayawardenepura general hospital, Sri Lanka	Sri Lanka	Vijitha Ramanathan; Sohan Almeida; Dhanushka Fernando
171	Optimization of dose to skin of fingers for nuclear medicine workers	Zimbabwe	Natsai Mutanga
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175	REGULATORY ENFORCEMENT AS A TOOL TO ENHANCE RADIATION SAFETY IN MEDICAL EXPOSURE	Zimbabwe	PRIMEROSE RUHUKWA
176	Strategies for Radiation Protection Education and Training for Ghana Atomic Energy Commissions Workers	Ghana	Moses Ankamah Addo; Peter Davor; Bernard Osei
177	MULTI CRITERIA BUDGET ALLOCATION MODELING FOR RADIOACTIVE WASTE DISPOSAL PROJECTS	UGANDA	KIZITO PAUL MUBIRU
178	COMPUTERIZED RADIOGRAPHY IN RADIOLOGICAL SAFETY	Cuba	Raul Ruiz Ruiz Martos
179	STUDY OF GENOME DAMAGE BY GAMMA-H2AX AND COMET ASSAY IN MEDICAL RADIATION WORKERS	INDONESIA	IIN KURNIA
180	EXPRESSION OF FREQUENCIES OF MICRONUCLEI AND $\gamma$ H2AX IN LYMPHOCYTE OCCUPATIONAL MEDICAL WORKERS	INDONESIA	Yanti Lusiyaniti
181	THE IMPACT OF OPTIMIZATION IN CT PEADIATRIC IMAGE QUALITY WITH REGARD TO FIGURE-OF-MERIT: AN ANTROPOMORPHIC PHANTOM STUDY	Malaysia	Muhammad Khalis Abdul Karim
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183	ASSESSMENT OF DNA DAMAGE IN MEDICAL RADIATION WORKERS USING THE ALKALINE COMET ASSAY AND THE CHROMOSOME ABERRATION	INDONESIA	DARLINA YUSUF
184	Radiation Protection Requirments for Medical Aplications in republic of North Macedonia	Republic of North Macedonia	Gordana Nikolova; Gordana Nikolova
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194	Specification for Radiological Protection of Nuclear Medicine Practitioners	China	Rong Fu Wang
195	Nuclear Science Technology and Radiation Safety in Medical Applications-A Mini Review	China	Rong Fu Wang
196	IMPLEMENTATION OF EFFECTIVE INCIDENT REPORT VIA QR CODE IN RADIOTHERAPY DEPARTMENT	Thailand	Puntiwa OONSIRI
197	PRACTICAL APPROACH FOR RADIOLOGICAL PROTECTION IN AVIATION - How can we assess the cosmic radiation exposures of individual flyers? -	Japan	Hiroshi Yasuda
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203	THE APPLICATION OF THE GRADED APPROACH TO THE REGULATION OF RADIOACTIVE SOURCES IN THE UNITED STATES	United States	Margaret Cervera; Duncan White
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214	THE REGULATION DEVELOPMENT PROCESS ON JUSTIFICATION OF ASYMPTOMATIC EXPOSURE IN INDONESIA	Indonesia	Sawiyah Sawiyah
215	Establishment of a Neutron Dosimetry Facility for Protection Level Calibration in the Philippines	Philippines	Marianna Lourdes Marie Grande
216	IMPROVEMENT OF RADIATION SAFETY USING PERSONAL RADIATION DOSIMETER PLUG IN SMARTPHONE	Iran	Charles Massey; Ali Nabipour Chakoli; Heather Weibert
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223	ICRP DOSE COEFFICIENTS AND CONSERVATISM	United Kingdom	John Harrison
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227	CONDUCT OF CONVENTION EXERCISE, CONVEX-2B DURING COVID-19 PANDEMIC	IAEA	Kilian Smith
228	Intuitive Robot Task Planning for Routine Monitoring and Surveillance in Nuclear facilities to Increase Radiation Safety	Egypt	A. E. Solyman
230	International Conference on Radiation Safety: Improving Radiation Protection in Practice	IRAQ	abdulsahib al-ziyad
231	ASSESSMENT OF MEDICAL EXPOSURE OF PATIENTS IN INTERVENTIONAL RADIOLOGY	Pakistan	ASIF SHEHZAD
232	Study of Radiation Risk in Medical Cyclotron Facilities and General Approach towards Operational Radiation Protection	Pakistan	Muhammad Shahid
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241	OPTIMIZATION AFTER MINIMIZATION Squaring the Circle in Radiation Protection	Germany	Bernd Lorenz; Ralph Brunner
242	How to improve the communication of the radiation protection system to stakeholders and the public	Switzerland	Andreas Leupin; Roland Scheidegger
243	A STATE-OF-THE-ART DOSE CALCULATION TOOL FOR THE CONSEQUENCE ANALYSIS	Sweden	Manorma Kumar
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245	IDENTIFICATION AND ASSESSMENT OF THE HAZARDS IN A NUCLEAR FUEL FABRICATION FACILITY (NFFF)	Egypt	Hade Elsayed
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251	IMPROVING RADIATION PROTECTION IN PRACTICE: FROM A TECHNICAL SERVICE PROVIDER (TSP) STANDPOINT	Philippines	Kristie Marie Romallosa
253	Radiation safety aspects for decommissioning of decayed Cobalt-60 radioactive source and depleted uranium used in Teletherapy machine	India	Rajni Verma
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258	The Role of Regional and International Cooperation in Radiation Safety: The Moroccan Experience	Morocco	Khammar Mrabit; Sofia Oukemeni
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272	RADIOLOGICAL IMAGING OF ASYMPTOMATIC INDIVIDUALS: Guidance for Justification, Governance and Decision Making in CT-IIHA	Switzerland	Jim Malone; Juergen Griebel; Steve EBDON-JACKSON; Eva FRIBERG; John BRODERSEN; Frederik MARTINY; Perez Maria
273	Dilemmas in CT scanning of asymptomatic individuals: Guidance on regulation and governance for individual health assessment (IHA)	Switzerland	Jim Malone; Maria Perez; Francois BOUCHUD; Maire Claire CANTONE; Christina Skourou; Andreas Reis
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309	WORKING ON DECISION MAKING AND STAKEHOLDER INVOLVEMENT IN THE ARGENTINE ADVISORY COUNCIL ON MEDICAL, INDUSTRIAL AND RESEARCH USES OF RADIOISOTOPES AND IONIZING RADIATION USES (CAAR)	ARGENTINA	Ana Rojo
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322	ASSESSMENT OF THE METHODS FOR ESTIMATIONS OF THE RADIOACTIVE SURFACE CONTAMINATION IN THE LATIN AMERICAN AND CARIBBEAN REGION	Cuba	Gonzalo Walwyn-Salas
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339	PROBABILISTIC INVERSE MODEL FOR IDENTIFICATION OF ATMOSPHERIC CONTAMINATION SOURCE IN AN CONTINENTAL-SCALE BASED ON THE 106-RU 2017 EVENT.	Poland	Piotr Kopka; MIHIR PANCHOLI
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374	THE INDUSTRIAL GAMMA RADIOGRAPHY IN COLOMBIA Implementation of the Specific Safety Guide No. SSG-11	Colombia	William Ricardo Riveros Triana
375	Optimisation: Rethinking the Art of Reasonable		Ted Lazo

## **IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT**

### **Safety Requirements**

GSR Part 3                Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards.

### **General Safety Guides**

- GSG-5    Justification of Practices, including Non-Medical Human Imaging.
- GSG-7    Occupational Radiation Protection.
- GSG-8    Radiation Protection of the Public and the Environment.
- GSG-9    Regulatory Control of Radioactive Discharges to the Environment.
- GSG-10   Prospective Radiological Environmental Impact Assessment for Facilities and Activities.
- RS-G-1.7 Application of the Concepts of Exclusion, Exemption and Clearance (under revision).

### **Specific Safety Guides**

- SSG-32   Protection of the Public against Exposure Indoors due to Radon and Other Natural Sources of Radiation
- SSG-36   Radiation Safety for Consumer Products.
- SSG-44   Establishing the Infrastructure for Radiation Safety.
- SSG-46   Radiation Protection and Safety in Medical Uses of Ionizing Radiation.
- SSG-55   Radiation Safety of X-ray Generators and Other Radiation Sources used for Inspection Purposes and for Non-Medical Human Imaging.
- SSG-57   Radiation Safety in Well Logging.
- SSG-58   Radiation Protection and Safety in the Use of Nuclear Gauges (in press).
- SSG-59   Radiation Safety of Accelerator Based Radioisotope Production Facilities.

### **Safety Reports**

- SR-84    Radiation Protection of Itinerant Workers.
- SR-98    Design and Execution of Representative Indoor Radon Surveys.
- SR-104   Radiation Protection and Safety in Veterinary Medicine (in press).

### **Safety Reports – NORM Industries**

- SR-34    Radiation Protection and the Management of Radioactive Waste in the Oil and Gas Industry.
- SR-49    Assessing the Need for Radiation Protection Measures in Work Involving Minerals and Raw Materials.
- SR-51    Radiation Protection and NORM Residue Management in the Zircon and Zirconia Industries.

- SR-68      Radiation Protection and NORM Residue Management in the Production of Rare Earths from Thorium Containing Minerals.
- SR-76      Radiation Protection and NORM Residue Management in the Titanium Dioxide and Related Industries.
- SR-78      Radiation Protection and Management of NORM Residues in the Phosphate Industry.
- SR-100    Occupational Radiation Protection in the Uranium Mining and Processing Industry.

### **TECDOCs**

- TECDOC-1679    Exemption from Regulatory Control of Goods Containing Small Amounts of Radioactive Material.
- TECDOC-1788    Criteria for Radionuclide Activity Concentrations for Food and Drinking Water.
- TECDOC-1810    Status of Radon Related Activities in Member States Participating in Technical Cooperation Projects in Europe.

Protocolos de Control de Calidad para Radiodiagnóstico en América Latina y el Caribe (in press).

### **Other Documents**

*Radioactivity in Goods Supplied for Public Consumption or Use: Towards an Internationally Harmonized Regulatory Framework* jointly developed by the Agency and the Autoridad Regulatoria Nuclear of Argentina.

[https://www.iaea.org/sites/default/files/19/02/iaea-arn\\_document\\_on\\_consumer\\_goods.pdf](https://www.iaea.org/sites/default/files/19/02/iaea-arn_document_on_consumer_goods.pdf)

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### **2021**

(Virtual event) International Conference on Advances in Radiation Oncology (ICARO3), 16-19 February

International Conference on a Decade of Progress After the Fukushima-Daiichi: Building on the Lessons Learned to Further Strengthen Nuclear Safety, 22-26 February

Second International Conference on Applications of Radiation Science and Technology (ICARST-2021), 19-23 April, Vienna, Austria

International Conference on Fast Reactors and Related Fuel Cycles (FR21), 10-13 May, Beijing, China

28th IAEA Fusion Energy Conference (FEC2020), 10-15 May, Nice, France

International Symposium on Sustainable Animal Production and Health - Current Status and Way Forward, 28 June-2 July, Vienna, Austria

International Conference on Operational Safety of Nuclear Power Plants, 30 August-3 September, Beijing, China

Scientific Forum, 21-22 September, Vienna, Austria

EPR2021: Developing Preparedness for National and International Emergency Response, 11-15 October, Vienna, Austria

International Ministerial Conference on Nuclear Power in the 21st Century, 18-20 October, Washington, USA

International Conference on Radioactive Waste Management: Solutions for a Sustainable Future, 1-5 November, Vienna, Austria

International Conference on the Safe and Secure Transport of Nuclear and Radioactive Materials, 13-17 December, Vienna, Austria

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