

Conference Programme

International Conference* on the
**Development of Preparedness for
National and International
Emergency Response (EPR 2021)**

11–15 October 2021

**IAEA Headquarters Vienna, Austria
M-Building | Boardroom A**



In cooperation with:

EUROPOL | ILO | IMO | OECD/NEA | PAHO | UNSCEAR | WMO

**In-person conference, with the possibility of remote connection.*

International Conference on the
**Development of Preparedness for National and
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Conference Programme – M-Building | Boardroom A

For virtual participation the conference registration will be opened well in advance.
All times in Central European Time (CET).

SUNDAY

10 October 2021

14.00 – 15.00

Meeting of the International Conference Programme Committee
Virtual meeting

MONDAY

11 October 2021

08.00 – 11.00

Registration

11.00 – 12.00



OPENING

OPENING SESSION:

Rafael Mariano Grossi | Director General | IAEA

Lydie Evrard | Deputy Director General | Department of Nuclear Safety
and Security (NS) | IAEA

Ann Heinrich | Conference President | United States of America

Florian Baciu | Conference Scientific Secretary
NS - Incident and Emergency Centre (IEC) | IAEA

Addresses on behalf of international cooperating organizations:

Samuel Farinha | EUROPOL

Shengli Niu | ILO

Julke Brandt | IMO

Greg Lamarre | OECD/NEA

Ciro Ugarte | PAHO

Borislava Batandjieva-Metcalf | UNSCEAR

Lars Peter Riishojgaard | WMO




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MONDAY

11 October 2021

12.00 – 12.10

Break 

12.10 – 12.25

Keynote address: Politics at a time of crisis

Main Keynote Speaker: Paschal Donohoe

Minister for Finance of Ireland | President of the Eurogroup

12.25 – 13.45




**SESSION 1: Emergency management system:
Building on national all-hazard experience**

Session Chairperson: Marcus Grzechnik | Australia

Session Technical Secretary: Svetlana Nestoroska Madjunarova | IAEA

1. The importance of a teamwork between the emergency response teams and national nuclear control entities, case study | **Christian Benalcazar Proaño** | Ecuador
2. Planning and preparedness for on-field arrangements in case of a nuclear emergency in Spain | **Antonio Ortiz Olmo** | Spain
3. Preparing for a nuclear/radiological incident by creating a unified response through national nuclear response frameworks | **Ibrahim Abdulmajeed** | Nigeria
4. Analysis of radiation hazards via atmospheric and aqueous dispersion for an accidental release from a LWR | **Igor Glicarev** | Slovenia
5. The nuclear/radiological emergency management system in Indonesia | **Dewi Apriliani** | Indonesia
6. Israeli National EPR plan - A unique doctrine in light of emerging challenges | **Avri Avital** | Israel

13.45 – 14.30

Lunch break 



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**SESSION 2: Combined emergencies:
Importance of addressing interfaces**

Session Chairperson: Alejandro Cortes Carmona | Mexico

Session Technical Secretary: Svetlana Nestoroska Madjunarova | IAEA

1. Emergency and nuclear security interface in emergency preparedness category IV accidents | **Wafaa Bakr** | Egypt
2. Lessons learned from the response to Seattle, Washington Cesium-137 release | **Cristen Ford** and **Ted Jakubowski** | United States of America
3. Security-safety conundrum: The interface between nuclear security and emergency preparedness | **Kathleen Heppell-Masys** | Canada
4. Harmonizing nuclear safety/security interface in emergency response - operator's perspective | **Muhammad Liaquat** | Pakistan
5. IAEA assistance mission in radiation-related matters after the Beirut Port explosion | **Rana Baydoun** | Lebanon
6. Functions and capabilities of the National Nuclear Regulator's Regulatory Emergency Response Centre | **Reuben Makgae** | South Africa

15.50 – 16.00

Break 

16.00 – 17.00



**ROUND TABLE 1: Graded approach in EPR and
approaches considered for new NPP designs,
such as advanced reactors, SMRs, and TNPPs**

Moderator: Todd Smith | United States of America

Technical Secretary: Frederic Stephani | IAEA

Panellists:

Luke Lebel | Canada

Minna Tuomainen | Finland

Heather Phillips | United Kingdom of
Great Britain and Northern Ireland

Juan Carlos de la Rosa-Blul | European
Commission's Joint Research Centre

Paula Calle Vives | IAEA



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**IAEA-IEC SESSION PART A:
Implementing and testing the response arrangements:
Standing operational**

1. Impact of the COVID-19 pandemic on IAEA Emergency Preparedness and Response (EPR) activities | **Mazzammal Hussain** | IAEA
2. The IAEA's database of source terms to support the IAEA's assessment and prognosis response role | **Frederic Stephani** | IAEA
3. ConvEx-3 (2021) exercise | **Stephane Defour** | IAEA

11.00 – 12.20



**SESSION 3:
International cooperation and assistance:
Working together towards improving EPR-Part I**

Session Chairperson: Machiel Kleemans | The Netherlands
Session Technical Secretary: Kilian Smith | IAEA

1. On the experience of the Russian Federation in international cooperation in the field of emergency preparedness and response
Marina Makarchuk | Russian Federation
2. International assistance for major public events - Experiences from a decade of U.S. and Brazil cooperation
Elder Magalhaes de Souza | Brazil
3. Canadian experience with the emergency preparedness review
Dominique Nsengiyumva | Canada
4. The OECD-NEA sixth international nuclear emergency exercise: preparations begin | **Jan-Hendrik Kruse** | OECD/NEA
5. Outline for the operational use of unmanned aerial systems during a radiological emergency
Mark Norsworthy | United States of America
6. Australia's progress on international review recommendations – when are we ready for an EPREV? | **Marcus Grzechnik** | Australia




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Break 

12.30 – 13.50



SESSION 4:

Radiation monitoring and dose assessment


Session Chairperson: Michalis Tzortzis | Cyprus

Invited Keynote Speaker: Abel Gonzalez | Argentina

Session Technical Secretary: Frederic Stephani | IAEA

1. Radiation exposure estimates in the aftermath of adverse events involving large releases of radioactive materials into the environment: monitoring versus modelling | **Abel Gonzalez** | Argentina
2. Novel detector for monitoring airborne radioactivity and fallout during a nuclear emergency | **Sakari Ihantola** | Finland
3. Development of biodosimetry tools for radiological/nuclear mass casualty incidents | **Adayabalam Sambasivan Balajee** | United States of America
4. Protection in nuclear and radiological emergencies: countermeasures and biodosimetry | **Elena Obrador** | Spain
5. Web-grape internet based service as an interactive tool that allows for post-processing and visualization of atmospheric transport modelling simulations | **Jolanta Kusmierczyk-Michulec** | CTBTO
6. Establishing the Environmental Radiation Monitoring and Early Warning System (ERMEWS) in Libya
Karima Elmasri | Libya

13.50 – 14.30

Lunch break 



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**SESSION 5: Defining protection strategy:
Building on sound planning basis and criteria**

Session Chairperson: Joao Oliveira Martins | Portugal

Invited Keynote Speaker: Deborah Quayle | Canada

Session Technical Secretary: Katerina Kouts | IAEA

1. Nuclear emergency preparedness during the COVID-19 pandemic: Canadian reflections on planning for concurrent emergencies
Deborah Quayle | Canada
2. LARCalc: an easy-to-use decision support tool for training and illustration of the radiological impact of accidental nuclear power plant releases and the effects of various restoration measures | **Christopher Rääf** | Sweden
3. Protecting the population during a nuclear accident: How to develop a protection strategy for population across all phases of a nuclear accident?
Vanessa Durand | France
4. The paradox of preparedness | **Sonja Schmid** | United States of America
5. Preparing a framework for recovery from a nuclear or radiological accident | **Veronica Smith** | Ireland
6. Determination of Operational Intervention Levels (OILs) within the Australian guide for emergency exposure situations | **Blake Orr** | Australia

15.50 – 16.00

Break 



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SESSION 6:

**Optimizing the protection strategy:
Use of tools, prognosis and assessment**

Session Chairperson: Celine Reuter | France

Session Technical Secretary: Katerina Kouts | IAEA

1. Prognosis, assessment of areas of impact and counter measure evaluation for off-site emergency management with ONERS
Venkata Srinivas Challa | India
2. The use of decision support system ESTE in protection strategy of Crisis Centre of the Czech State Office for Nuclear Safety
Monika Krpelanova | Slovak Republic
3. Assessment and prognosis in an emergency: experience and main outcomes from implementation of computerization of routine processes in the system of continuous severe NPP accidents modelling and their consequences prognosis | **Sergei Vasilev** | Russian Federation
4. Process of emergency evacuation at medical institution in Fukushima disaster and lesson for future nuclear disaster preparedness
Tayoaki Sawano | Japan
5. Plans and procedures for responding days to months after a radiological dispersal incident | **Avri Avital** | Israel
6. Graded approach in nuclear regulatory control regarding prevention, preparedness and response to nuclear or radiological emergency
Petre-Cornel Min | Romania



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WEDNESDAY

13 October 2021

10.30 – 11.00



**IAEA-IEC SESSION PART B:
 Building capacity in emergency preparedness
 and response: facing the challenges**

1. Capacity building in EPR: the role of the IAEA
Svetlana Nestoroska Madjunarova | IAEA
2. Master's Degree Programme in EPR – advanced capacity building
Katerina Kouts | IAEA
3. International Network for Education and Training on EPR (iNET-EPR)
Muzna Assi | IAEA

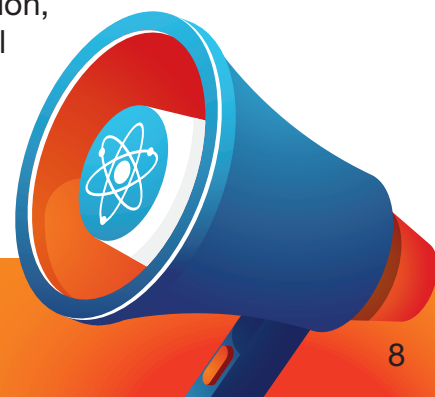
11.00 – 12.20



**SESSION 7: Elements of successful communications
 to the public: accuracy, clarity, empathy, and timeliness**

Session Chairperson: Adriana Scialdone Garcia | Spain
Session Technical Secretary: Peter Kaiser | IAEA

1. Information space simulator as a tool for training communication personnel and journalists to inform the public in emergency situations at NPPs
Andrey Timonov | Russian Federation
2. Media as communication channel to build trust in nuclear or radiological emergency response | **Retno Agustyah** | Indonesia
3. The importance of breaking down technical concepts into understandable, yet accurate, terms associated with a radiological incident
Steve Sugarman | United States of America
4. How to improve communication skills to face a radiological emergency?
Rommy Casanueva | Chile
5. Bioindicators of low dose radiation exposure and importance of educational dialogue in public perception of low dose radiation risks
Manoor Prakash Hande | Singapore
6. Capacity reinforcement and building for prevention, communication and management of radiological and nuclear emergencies
Cheikh Amadou Bamba Dath | Senegal




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WEDNESDAY

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12.20 – 12.30

Break 

12.30 – 13.50



SESSION 8:

Medical emergency preparedness and response

Session Chairperson: Carol Iddins | United States of America

Session Technical Secretary: Joshua Hayes | IAEA

1. Practical tools to integrate mental health and psychosocial support into decision making on protective actions | **Matthias Zähringer** | Germany
2. Medical response to releases of radioactive materials: determining intakes when time is of the essence | **Jason Davis** | United States of America
3. Medical EPR arrangements for nuclear and radiological emergencies
Alena Nikalayenka | Belarus
4. Diagnoses and treatment of radiation injuries: ‘all-in-one’ service at GIMRO in Ukraine | **Volodymyr Vinnikov** | Ukraine
5. Networking in biological dosimetry – an important tool in emergency response | **Ursula Oestreicher** | Germany
6. Implementation of international recommendations for medical preparedness and response to radiological or nuclear emergencies in Hungary | **István Turai** | Hungary

13.50 – 14.30

Lunch break 



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WEDNESDAY

13 October 2021

14.30 – 15.50



**SESSION 9: International cooperation and assistance:
Working together towards improving EPR-Part II**

Session Chairperson: Muhammad Nadeem Hussain | Pakistan

Invited keynote speaker: Saiyadi Sulaiman | Nigeria

Session Technical Secretary: Stephane Defour | IAEA

1. Illegal shipment of contaminated scrap metal to Europe
Saiyadi Sulaiman | Nigeria
2. ConvEx: Lessons learned and challenges identified from US participation
Patrick Disney | United States of America
3. WMO's emergency response activities | **Yuki Honda** | WMO
4. International Exchange Program (IXP): A tool for assessing radioactive atmospheric releases | **Lydia Tai** | United States of America
5. Experience of DSS JRODOS application in Ukraine as a tool for assessment and prognosis in an emergency | **Yurii Kyrlyenko** | Ukraine
6. The use of ESA satellites outputs to improve knowledge about contamination of food and agricultural products in case of nuclear emergency | **Eva Fojčíková** | Slovak Republic

15.50 – 16.00

Break 

16.00 – 17.00



ROUND TABLE 2:

Addressing non-radiological consequences of emergencies

Moderator: Veronica Smith | EPA

Technical Secretary: Muzna Assi | IAEA

Panellists:

Kazuo Monma | Major of Minamisoma City | Japan

Michio Murakami | Japan

Joao Simoes | EUROPOL

Jacqueline Garnier-Laplace | OECD/NEA

Zhanat Carr and **Fahmy Hanna** | WHO



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THURSDAY

14 October 2021

11.00 – 12.20



**SESSION 10: Public communication:
Experience, tools, and the path forward**

Session Chairperson: Jaime Salas Kurte | Chile

Session Technical Secretary: Peter Kaiser | IAEA

1. Hearts over heads: the crucial need for reforms in pre-emergency communication strategies | **John Lindberg** | United Kingdom of Great Britain and Northern Ireland
2. Measuring psychosocial impacts from protective actions in nuclear emergencies – is there a non-radiological sievert? | **Tristan Barr** | Canada
3. Public awareness program and communication mechanism for nuclear or radiological emergencies in Pakistan | **Iqra Zaidi** | Pakistan
4. Communicating emergency with the public during the Fukushima nuclear accident – the Philippine experience | **Framelia Anonas** | Philippines
5. Addressing misinformation and combating disinformation and malinformation | **Holly Hardin** | United States of America

12.20 – 12.30

Break 

12.20 – 14.30



SESSION 11: Poster session

Session Technical Secretary: Stacey Horvitz | IAEA

The poster session will be held during the initial break and lunch break - please see the annex starting on page 14 of the conference programme

13.50 – 14.30

Lunch break 



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THURSDAY

14.30 – 15.50



14 October 2021

SESSION 12:

Education and training: Building capacity to strengthen skills and qualification in EPR

Session Chairperson: Karla Petrova | Czech Republic

Invited keynote speaker: Khammar Mrabit | Morocco

Session Technical Secretary: Muzna Assi | IAEA

1. Human resources development and knowledge management: AMSSNuR's CBC-EPR Experience | **Khammar Mrabit** | Morocco
2. Online training to boost knowledge transfer to the next generation of experts: the International Radiological Protection School
Jacqueline Garnier-Laplace | OECD/NEA
3. Capacity building in medical response during a nuclear or radiological emergency in Pakistan | **Muhammad Zakireen** | Pakistan
4. Russian experience in training national and international personnel in the field of emergency preparedness and response
Alesia Iunikova | Russian Federation
5. SCK CEN Academy actions for competence building in preparedness and response for nuclear and radiological emergencies **Tom Clarijs** | Belgium
6. China's experience on the regional school of radiation emergency management
Min Huang and **Wei Cheng** | China

15.50 – 16.00

Break 

16.00 – 17.00



ROUND TABLE 3: Capacity Building – Future of training programmes, what is the new “normal”, what have we learned from the COVID-19 pandemic?

Moderator: Kathleen Heppell-Masys | Canada

Technical Secretary: Katerina Kouts | IAEA

Panellists:

Noboru Takamura | Japan **Leon Cizelj** | Slovenia

Mohamed Al Marzooqi | United Arab Emirates

George Foster | United Kingdom of Great Britain and Northern Ireland

Jessica Wieder | United States of America



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FRIDAY

15 October 2021

11.00 – 12.20



SESSION 13:
Learning lessons from experience

Session Chairperson: **Grant Ingham** | United Kingdom of
Great Britain and Northern Ireland

Session Technical Secretary: **Günther Winkler** | IAEA

1. A regulator's lessons learned from a false alert
Elaine Kanasewich | Canada
2. The use of IMS observations from the Fukushima accidents for studies on
the source term, wet deposition, and other scientific purposes
Martin Kalinowski | CTBTO
3. Updated UNSCEAR estimates of public exposure (evacuees and
non-evacuees) following the accident at the Fukushima Daiichi NPS
Florian Gering | UNSCEAR
4. The pivot: transitioning to a virtual joint information center
Mark Basnight | United States of America
5. Elevated ¹³⁷Cs concentrations in air at Thessaloniki, Greece due to April
2020 Chernobyl exclusion zone wildfires | **Alexandra Ioannidou** | Greece

12.20 – 12.30

Break 

12.30 – 14.00



SESSION 14: Panel
**Key reflections, questions and answers and possible ways
forward; reports from session Chairs**

Moderator: **Florian Baciu** | IAEA

Panellists: **Session Chairpersons**

14.00 – 15.00



CLOSING

CLOSING SESSION

Conference President:
Ann Heinrich | United States of America

Conference Scientific Secretary:
Florian Baciu | IAEA



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ANNEX

Thursday, 14 October 2021 | Lobby Boardroom A



IN-PERSON

SESSION 11:
Poster session | in-person´
SCREEN 1

12.30 – 12.40	Environmental Engineering Estimation for Consequences of PWR Accident and Determination of the Evacuation Critical Areas Using Computer Code Analysis Elsayed Salem Hanafy Egypt
12.45 – 12.55	-
13.00 – 13.10	-
13.15 – 13.25	-
13.30 – 13.40	Emergency Preparedness and Response System of SE NNEGC “Energoatom” Yelyzaveta Iassirska Ukraine
13.45 – 13.55	-
14.00 – 14.10	Overview of the CTBTO role in IACRNE, the radionuclide sensors of the IMS and related ATM capabilities for nuclear explosion monitoring Martin Kalinowski CTBTO



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Thursday, 14 October 2021 | Lobby Boardroom A



IN-PERSON

SESSION 11:
Poster session | in-person´
SCREEN 2

- | | |
|---------------|---|
| 12.30 – 12.40 | How to Restart and Dynamize INES? Michal Makovnik Slovakia |
| 12.45 – 12.55 | Lithuanian Radiation Protection Centre Capacities in Accidental Radiological Survey and Exposure Assessment Olga Sevriukova Lithuania |
| 13.00 – 13.10 | Development of Regulatory Infrastructure for Emergency Preparedness and Response Gordana Nikolova North Macedonia |
| 13.15 – 13.25 | Key Questions to Ask When Developing Data Transfer from Operator to Regulator and Application to Non-Reactor Nuclear Installations, SMRs and Microreactors Michal Makovnik Slovakia |
| 13.30 – 13.40 | Implementation of IAEA General Safety Requirements for Preparedness and Response to Nuclear or Radiological Emergency (GSR Part 7) in National Regulatory Framework Muhammad Nadeem Pakistan |
| 13.45 – 13.55 | RNToolkit: a novel web-based software application for CTBTO radionuclide data Abdelhakim Gheddou CTBTO |
| 14.00 – 14.10 | - |



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Thursday, 14 October 2021 | Lobby Boardroom A



IN-PERSON

SESSION 11:
Poster session | in-person´
SCREEN 3

12.30 – 12.40	RENEB Biological and Physical Dosimetry Study - Laboratory inter-comparison of eight dosimetry assays Matthias Port Germany
12.45 – 12.55	The National Project for Enhancing Preparedness and Response System for a Nuclear or Radiological Emergency in Libya Husam Shames Libya
13.00 – 13.10	-
13.15 – 13.25	-
13.30 – 13.40	Planned Purposes and Capabilities of the International Atomic Energy Agency's Biological Dosimetry Model Laboratory (BDML) Joshua Hayes IAEA
13.45 – 13.55	-
14.00 – 14.10	Exercises in the Conditions of the Restrictions: Results and Lessons Learned Nataliia Bizhko Ukraine



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Thursday, 14 October 2021

**SESSION 11:
Poster session | virtual**

Training activities carried out by Intervention in Radiological and Nuclear Emergencies Department (SIERyN) of the Nuclear Regulatory Authority (ARN) of Argentina in times of Covid-19 | **Mariana Barone** | Argentina

Nuclear and Radiological Emergency Management in Azerbaijan Republic
Emin Mansurov | Azerbaijan

Emergency Radiation Monitoring for Public Protection in Belarus
Viktoryia Kliaus | Belarus

Using Graded Approach in Establishing Emergency Plans
Larisa Rozdylouskaya | Belarus

The National Radiation Emergency Plan (NREP) and derived Communication Protocols: In the framework of the Chilean Coordinating Body
Herman Zárate | Chile

Arrangements for the update of the national preparedness and response system for a nuclear or radiological emergency in Greece
Konstantinos Karfopoulos | Greece

The BAPETEN's National and International Cooperation in Term of Nuclear and Radiological Emergency Preparedness and Response | **Jenita Abran** | Indonesia

Radiation Protection Program During The COVID-19 Pandemic In The Bandung TRIGA 2000 Reactor | **Harry Mukhrivan** | Indonesia

Emergency Preparedness in the States that are Close to the Neighbouring States' Nuclear Power Plants Sites in the National Border
Muhammad Sujana Prawira | Indonesia

The Role of Public Communication in Indonesia's Nuclear Emergency Response-
Sutiono Purwosunu | Indonesia

The Role of BAPETEN's International Cooperation in the IAEA International Activities in the field of Nuclear Emergency Preparedness and Response | **Auzan Shadiq** | Indonesia



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SESSION 11:
Poster session | virtual

Indonesia's Experience in Strengthening Nuclear Emergency Preparedness at the Facility Level through Assessment of Safety Performance Indicators on Aspects of Nuclear Emergency Preparedness Inspection | **Danung Rismawan** | Indonesia

A Carborne Gamma-Ray Survey System, Kurama-II | **Minoru Tanigaki** | Japan

Emergency Preparedness: Challenges and Good Practices from the Moroccan Experience | **Abdelkader Benider** | Morocco

Communication During a Nuclear or Radiological Emergency: The efforts made by the Kingdom of Morocco to prepare for the implementation of notification and information exchange processes at national and international levels
Khammar Mrabit | Morocco

Lessons Learnt from Fukushima Accident and Their Impact on Emergency Preparedness and Response Arrangements at Nuclear Power Plants in Pakistan | **Raafia Majeed** | Pakistan

Lung Dose Calculations Using Stochastic Lung Modeling Technique Following a Nuclear Power Plant Accident | **Hussain Majid** | Pakistan

Nuclear Emergency Management System (NEMS) in Pakistan
Muhammad Najam Manzoor | Pakistan

Augmented Arrangements for Population Monitoring and Decontamination in Case of Nuclear or Radiological Emergency in Pakistan | **Yasir Munir** | Pakistan

Comparative Analysis of Institutional and International Regulations Relevant to Nuclear or Radiological Emergency Preparedness
Laslie Jamie Cobar | Philippines

Systematic approach to training of personnel for emergency preparedness and response infrastructure | **Yulia Chernyakhovskaya** | Russian Federation



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ANNEX



VIRTUAL

Thursday, 14 October 2021

SESSION 11:
Poster session | virtual

Analysis of the international fundamental standards for protection against ionizing radiation and for the safety of radiation sources with regard to the particular situation of developing countries (IFSR) | **Ibra Toure** | Senegal

Assessment in nuclear emergency and modelling system for prognosis of radiological impacts for protective actions in Slovak nuclear power plants Mochovce and Bohunice | **Eva Fojcikova** | Slovakia

The Use of Simulations Tool ESTE for Exercises at the Crisis Centers of Slovak Nuclear Power Plants | **Ludovit Liptak** | Slovakia

ENsuring RAdiation Safety (ENRAS) in the cross-border region of Slovenia and Croatia | **Branko Vodenik** | Slovenia

Decision support diagrams for nuclear emergencies
Jan Johansson Barck-Holst | Sweden

National Action Plan of Emergency Preparedness and Response in Tajikistan
Olimjon Azizov | Tajikistan

Modeling Resource Budget Allocation Criteria for Hospital Emergency Response Planning | **Kizito Mubiru** | Uganda

Implementation of the International Radiation Monitoring Information System at a national level | **Sanjoy Mukhopadhyay** | United States of America

NRC Transformation in Emergency Management
Todd Smith | United States of America

Risk-Informed Emergency Preparedness for Advanced Reactors
Todd Smith | United States of America

Aerial Measuring System (AMS) International Technical Exchanges | **Piotr Wasiolek** | United States of America

