



**IAEA**

International Atomic Energy Agency

*Atoms for Peace and Development*

CN-270; EVT1806645

# **International Conference on Effective Nuclear and Radiation Regulatory Systems:**

## **Working Together to Enhance Cooperation**

The Hague, The Netherlands

4–7 November 2019

Organized by the  
International Atomic Energy Agency (IAEA)

Hosted by the  
Government of the Netherlands

In cooperation with the  
European Commission (EC)/Joint Research Centre

## **PROGRAMME**

---

**Programme Committee:**

CM Larsson, Australia (President)  
M. Brugmans, Netherlands (Vice-President)  
O. Lugovskaya, Belarus  
A. Facure, Brazil  
P. Webster, Canada  
J. Yu, China  
M. Huebel, EC  
V. Ranguelova, EC  
K. Alm-Lytz, Finland  
F. Joureau, France  
D.K. Shukla, India  
N. Ichii, Japan  
K. Mrabit, Morocco  
I. Sokolova, Russian Federation  
B. Tyobeka, South Africa  
H. Nilsson, Switzerland  
E. Benner, United States of America  
S. Mallick, IAEA  
E. Beaupre, IAEA  
R. Pacheco Jimenez, IAEA  
D. Senior, IAEA  
S. Harvey, IAEA  
A. Hallock, IAEA

---

**IAEA Secretariat:**

Scientific Secretary:	S. Mallick, NSOC
Scientific Support:	E. Beaupre, NSOC
Event Organizer:	M. Khaelss, MTCD
Administrative Support:	P. Sales Barbosa, NSOC

---

**Location of the Event:**

New Babylon Meeting Centre  
Anna van Buerenplein 29  
2595 DA Den Haag  
The Netherlands  
<http://www.newbabylonmeetingcenter.nl/Meeting-Center/Uw-evenement>

---

**Working Language:** English

---

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

---

## IAEA Mobile Conference Application



Participants are encouraged to download the “IAEA Conference and Meetings” App available on Google Play and the iTunes Store.

**Android**

**iPhone**



The functions and features of the App for smartphones and tablets will be used for various purposes during the event:



View an up-to-date programme



Check floor map of the sessions and exhibitors



Read abstracts and full-papers of speakers



Participate in voting during sessions



Raise questions to speakers during session



Send message to other participants



Receive announcements via push-notification

If you have questions or require assistance on the App, please contact the Registration Desk.

## TIMETABLE

### Sunday, 03 November 2019

Time	Session No.	Session Title / Break
16:00–18:00		On-Site Registration

### Monday, 4 November 2019

Time	Session No.	Session Title / Break
As of 08:00		On-Site Registration
09:00–10:45		Opening Session
10:45–11:15		<i>Break and Poster Viewing Session</i>
11:15–12:45	1	Regulating Nuclear Installations
12:45–14:00		<i>Lunch Break</i>
14:00–15:30	2	Regulation Nuclear Installation con't
15:30–16:00		<i>Break and Poster Viewing Session</i>
16:00–17:00		Plenary Panel Discussion
17:30–19:30		<i>Welcome Reception</i>

### Tuesday, 5 November 2019

Time	Session No.	Session Title / Break
09:00–09:15		Previous day recap
09:15–10:45		Special Panel – Emergency Preparedness and Response
10:45–11:15		<i>Break and Poster Viewing Session</i>
11:15–12:45	3	Regulating Radiation and Medical Facilities
12:45–14:00		<i>Lunch Break</i>
14:00–15:30	4	Regulating Radiation and Medical Facilities cont'd
15:30–16:00		<i>Break and Poster Viewing Session</i>
16:00–17:00		Plenary Panel Discussion

### Wednesday, 6 November 2019

Time	Session No.	Session Title / Break
09:00–09:15		Previous day recap
09:15–10:45	5	Cross-Cutting Regulatory Areas
10:45–11:15		<i>Break and Poster Viewing Session</i>
11:15–12:45	6	Cross-Cutting Regulatory Areas cont'd
12:45–14:00		<i>Lunch Break</i>
14:00–15:30	7	Leadership and Management for Safety and Security
15:30–16:00		<i>Break and Poster Viewing Session</i>
16:00–17:00		Plenary Panel Discussion

### Thursday, 7 November 2019

Time	Session No.	Session Title / Break
09:00–09:15		Previous day recap
09:15–11:00	8	Strengthening International Cooperation
11:00–12:00		<i>Break</i>
12:00–12:40		Closing Session
13:00–20:30		<i>Technical Visit</i> COVRA – the Central Organisation for Radioactive Waste in the Netherlands

**SUNDAY, 03 NOVEMBER 2019**

16:00-18:00 On-Site Registration

**MONDAY, 4 NOVEMBER 2019**

As of 08:00 On-Site Registration

09:00-10:45 OPENING SESSION

Time	Name	Designating Member State/Organization	Title
09:00-09:10	<b>J C Lentijo</b>	Deputy Director General, Head of Department of Nuclear Safety and Security, IAEA	Welcome Address
09:10-09:20	<b>J. van den Heuvel</b>	Chair of the board of the Authority for Nuclear Safety and Radiation Protection (ANVS), Netherlands	Welcome Address
09:20-09:30	<b>M Betti</b>	Director, Nuclear Safety and Security, EC	Welcome Address
09:30-09:40	<b>CM Larsson</b>	Conference President, Australia	Welcome Address
09:40-09:50	<b>H. Liu</b>	President of 2016 Conference, China	Nuclear and Radiation Regulatory Updates since the last Conference
09:55-10:10	<b>P. Tiippana</b>	Finland	First European Topical Peer Reviews on Ageing Management of Nuclear Power Plants
10:10-10:25	<b>K. Svinicki</b>	United States of America	Effective Regulation in Changing Times: Lessons from the Past and Transformation for the Future
10:25-10:35	<b>C. Viktorsson</b>	United Arab Emirates	Developing a regulatory body of high international standard in a newcomer nuclear country
10:35-10:45	<b>K. Mrabit</b>	Morocco	Developing and implementing the Nuclear and Radiological Safety and Security Infrastructure: The Moroccan Capacity Building Experience
10:45-11:15	<i>Break and Poster Viewing Session</i>		

**11:15-12:45 SESSION 1:  
Regulating Nuclear Installations****Chairpersons:** **S. Ghose, Bangladesh**  
**S. Cadet-Mercier, France**

Time	Name	Designating Member State/Organization	Title of Presentation
11:20-11:35	<b>G. Schwarz</b>	Switzerland	Switzerland back-fitting standards to existing NPPs
11:35-11:50	<b>C. Quintin</b>	France	Detecting, preventing and dealing with counterfeit and fraudulent items (CFI): adapting the oversight processes
11:50-12:05	<b>A. Ferapontov</b>	Russian Federation	Safety regulation of innovative nuclear facilities in the Russian Federation: challenges and solutions
12:05-12:20	<b>M. Yasui</b>	Japan	Safety regulations for aged reactors
12:20-12:45	<b>Question and Answer</b>		
12:45-14:00	<i>Lunch Break</i>		

**MONDAY, 4 NOVEMBER 2019**

**14:00–15:30**                    **SESSION 2:**  
**Regulating Nuclear Installations cont'd**

**Chairpersons:**            **G. Chai, China**  
                                 **M. Doane, United States of America**

Time	Name	Designating Member State/Organization	Title of Presentation
14:05–14:20	<b>R. Jammal</b>	Canada	Innovation in Regulation – Enhancing Regulatory Effectiveness
14:20–14:35	<b>B. Kuldjanov</b>	Uzbekistan	Management of uranium legacy sites in Uzbekistan: recent international activity
14:35–14:50	<b>J. Heinonen</b>	Finland	Regulating disposal facilities
14:50–15:05	<b>C. Sanders</b>	World Nuclear Association	Regulatory lessons to be drawn from industry experience in managing material and waste from nuclear decommissioning
<i>15:05–15:30</i>	<i><b>Question and Answer</b></i>		

---

*15:30–16:00*                    *Break and Poster Viewing Session*

---

**16:00–17:00**                    **PLENARY PANEL DISCUSSION:**  
**Summary of the Day and Lessons Learned**

**Chairperson:**            **CM Larsson, Australia**

**Panellists**                    **S. Ghose, Bangladesh**  
                                 **G. Chai, China**  
                                 **H. Liu, China**  
                                 **P. Tiippana, Finland**  
                                 **S. Cadet-Mercier, France**  
                                 **K. Mrabit, Morocco**  
                                 **C. Viktorsson, United Arab Emirates**  
                                 **M. Doane, United States of America**  
                                 **K. Svinicki, United States of America**

---

*17:30–19:30*                    ***Welcome Reception***

---

## TUESDAY, 5 NOVEMBER 2019

**09:00–09:15**      **PREVIOUS DAY RECAP:**  
*Speaker: CM Larsson, Australia*

**09:15–10:45**      **SPECIAL PANEL:**  
**Emergency Preparedness and Response**

**Chairperson:**      **S.A. Bhardwaj, India**  
                         **M. Brugmans, Netherlands**

**Panellists**            **J. Zhang, China**  
                         **J.L. Lachaume, France**  
                         **K. Petrova, Heads of the European Radiological Protection Competent Authorities (HERCA)**  
                         **E. Buglova, IAEA**  
                         **K.S. Pradeepkumar, India**  
                         **A. Cortes, Mexico**  
                         **E. Schrader, United States of America**

---

*10:45–11:15*      *Break and Poster Viewing Session*

---

**11:15–12:45**      **SESSION 3:**  
**Regulating Radiation and Medical Facilities**

**Chairpersons:**      **F. Ollite, Mauritius**  
                         **B.F. Ndeye Arame, Senegal**

Time	Name	Designating Member State/Organization	Title of Presentation
11:20–11:30	<b>P. Chaumet-Riffaud</b>	France	Graded approach applied to medical applications in France: from strategy to practical implementation
11:30–11:40	<b>M. Korse</b>	Netherlands	The detection and prevention of orphaned sources
11:40–11:50	<b>S. Carvalho</b>	Brazil	Regulatory aspects of radioisotope production
11:50–12:00	<b>J. Elee</b>	United States of America	Regulating Radiation Sources and Medical Facilities in the United States including challenges with new technologies and applications
12:00–12:10	<b>P.K. Dash Sharma</b>	India	Regulating medical and research activities using ion technology
12:10–12:20	<b>M. Ermacora</b>	Ibero-American Forum of Radiological and Nuclear Regulatory Agencies (FORO)	Competencies of the Staff of Regulatory Bodies in Medical and Industrial Radiological Applications
12:20–12:45	<b>Question and Answer</b>		

---

*12:45–14:00*      *Lunch Break*

---

**14:00–15:30**      **SESSION 4:**  
**Regulating Radiation and Medical Facilities cont'd**

**Chairpersons:**      **A. Facure, Brazil**  
                         **N. Ramamorthy, India**

Time	Name	Designating Member State/Organization	Title of Presentation
14:05–14:17	<b>E. Kudryaytsev</b>	Russian Federation	Rostekhnadzor's interaction on radiation safety and nuclear security with other regulators in the Russian Federation to enhance regulatory capabilities
14:17–14:29	<b>J. Scott</b>	Australia	Regulatory Challenges for Reactor Based Nuclear Medicine Production
14:29–14:41	<b>S. Getachew</b>	Ethiopia	Establishing Radiation Safety Regulatory Infrastructure
14:41–14:53	<b>A. Nader</b>	Uruguay	Regulating Radiation Sources and Medical Facilities
14:53–15:05	<b>Y. Jiang</b>	China	Radiation Safety Regulation of Nuclear Technology Utilization in China
15:05–15:30	<b>Question and Answer</b>		

---

*15:30–16:00*      *Break and Poster Viewing Session*

---

**TUESDAY, 5 NOVEMBER 2019**

**16:00–17:00**                    **PLENARY PANEL DISCUSSION:**  
**Summary of the Day and Lessons Learned**

**Chairperson:**                **CM Larsson, Australia**

**Panellists**                    **A. Facure, Brazil**  
**S.A. Bhardwaj, India**  
**N. Ramamorthy, India**  
**F. Ollite, Mauritius**  
**M. Brugmans, Netherlands**  
**B.F. Ndeye Arame, Senegal**



## WEDNESDAY, 6 NOVEMBER 2019

09:00–09:15

**PREVIOUS DAY RECAP:**  
*Speaker: CM Larsson, Australia*

09:15–10:45

**SESSION 5:**  
**Cross-Cutting Regulatory Areas**

**Chairpersons:**

**R. Jammal, Canada**  
**I. Sokolova, Russian Federation**

Time	Name	Designating Member State/Organization	Title of Presentation
09:20–09:32	<b>M. Tuomainen</b>	Finland	Safety-security interface in the Finnish regulatory framework
09:32–09:44	<b>F. Wastin</b>	European Commission	Challenges and Opportunities in Nuclear Knowledge Management and Networks
09:44–09:56	<b>C. Tait</b>	United Kingdom	ONR's Regulatory Assurance Framework - Driving Continuous Improvement in our Regulation
09:56–10:08	<b>G. Lamarre</b>	Canada	Technical and Scientific Support Organization (TSO) Forum – Supporting the Development of Technical and Scientific Capacities in Member States
10:08–10:20	<b>N. Mughal</b>	Pakistan	Capturing and Using Regulatory Experience to Improve Effectiveness
10:20–10:45	<b>Question and Answer</b>		

10:45–11:15

*Break and Poster Viewing Session*

11:15–12:45

**SESSION 6:**  
**Cross-Cutting Regulatory Areas cont'd**

**Chairpersons:**

**M. Garribba, European Commission**  
**M. Ziakova, Slovakia**

Time	Name	Designating Member State/Organization	Title of Presentation
11:20–11:30	<b>S. Al Mansoori</b>	United Arab Emirates	Building capacity and capability United Arab Emirates nuclear regulator's perspective
11:30–11:40	<b>M. Foy</b>	United Kingdom	UK progress in developing a new framework for measuring and reporting on regulatory effectiveness
11:40–11:50	<b>D. Bokov</b>	Russian Federation	Public communication and involvement – enhancement of awareness in regulatory activities in the Russian Federation
11:50–12:00	<b>L. Hakim</b>	Indonesia	BAPETEN Human Resource Development
12:00–12:10	<b>P. Bueso</b>	France	International efforts on R&D dedicated to safety expertise and decision making
12:20–12:45	<b>Question and Answer</b>		

12:45–14:00

*Lunch Break*

## WEDNESDAY, 6 NOVEMBER 2019

**14:00–15:30**                    **SESSION 7:**  
**Leadership and Management for Safety and Security**

**Chairpersons:**                **Z.A. Baig, Pakistan**

Time	Name	Designating Member State/Organization	Title of Presentation
14:05–14:17	<b>D.K. Shukla</b>	India	Significance of Human and Organizational Factors in Ensuring Safety
14:17–14:29	<b>A. Franzen</b>	Sweden	Graded Approach to Integrated Management Systems and Safety Culture: The Balance between Structure and Culture
14:29–14:41	<b>M. Doane</b>	United States of America	Nuclear Regulatory Transformation Activities in the United States
14:41–14:53	<b>G. Lamarre</b>	Canada	Safety Culture – The Canadian Nuclear Regulator's Perspective
14:53–15:05	<b>R. Ferro</b>	Cuba	Internal Safety Culture at the Cuban Regulatory body: achievements, difficulties and challenges
<b>15:05–15:30</b>	<b><i>Question and Answer</i></b>		
<b>15:30–16:00</b>	<b><i>Break and Poster Viewing Session</i></b>		

**16:00–17:00**                    **PLENARY PANEL DISCUSSION:**  
**Summary of the Day and Lessons Learned**

**Chairperson:**                **CM Larsson, Australia**

**Panellists**                    **R. Jammal, Canada**  
**M. Huebel, European Commission**  
**Z.A. Baig, Pakistan**  
**I. Sokolova, Russian Federation**  
**M. Ziakova, Slovakia**

## THURSDAY, 7 NOVEMBER 2019

09:00–09:15

**PREVIOUS DAY RECAP:**  
*Speaker: CM Larsson, Australia*

09:15–11:00

**SESSION 8:**  
**Strengthening International Cooperation**

**Chairperson:**

**K. Mrabit, Morocco**  
**S.M. Petrick Casagrande, Peru**

**Speaker**

**G. Caruso, IAEA**  
*Role of the IAEA in Strengthening International cooperation for nuclear and radiation safety and nuclear security*

**Panellists**

**P. Webster, Canada**  
**O. Luyckx, European Commission**  
**B. Tyobeka, South Africa**  
**A. de los Reyes, Spain**  
**H. Wanner, Switzerland**  
**A. Bradford, United States of America**

---

11:00–12:00

*Break*

---

12:00–12:40

**CLOSING SESSION**

Time	Name	Designating Member State/Organization	Title
12:00–12:30	<b>CM Larsson</b>	Conference President, Australia	Conclusions, Recommendations, and Summary
12:30–12:35	<b>M. Huebel</b>	European Commission	Closing Remarks
12:35–12:40	<b>G. Caruso</b>	Director, Office of Safety and Security Coordination, IAEA	Closing Remarks

---

13:00–20:30

**Technical Visit**  
*COVRA – the Central Organisation for Radioactive Waste in the Netherlands*

You had to have registered in advance of the conference to participate. A bus will take all registered participants to COVRA, the bus ride will take about 2 hours. The bus leaves at 13h00 from the conference center. The bus will leave CORVA at 18h30 at the latest.

---

## Poster Presentations

All posters will be displayed during the breaks from Monday 04 November to Wednesday 06 November in the Poster Area next to the Conference Room.

Authors are requested to be present at their posters during the breaks for discussion with interested participants.

### Topic 1: Regulating Nuclear Installations

Poster No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Poster
09	<b>U. Chikkanagoudar</b>	India	Regulation of new reactor technologies in AERB and associated challenges
17	<b>A. Lavrinovich</b>	Russian Federation	Regulation of nuclear fuel cycle facilities safety in the Russian Federation. Back end issues.
72	<b>T.T. Tran</b>	Viet Nam	Regulating Nuclear Installations in Vietnam
85	<b>H. Sallam</b>	Egypt	Software Failure Analysis using a Soft Computing Technique for the Reactor Protection System
102	<b>E. Ampomah-Amoako</b>	Ghana	Development of Regulatory Infrastructure for Nuclear Installations in Ghana
107	<b>E. Shafei</b>	Egypt	Safety Critical Software Failure Prevention Using Defence-in-Depth Approach
161	<b>M. Alharbi</b>	Saudi Arabia	Nuclear and Radiological Regulatory Commission (NRRC) In Saudi Arabia

### Topic 2: Regulating Radiation and Medical Facilities

Poster No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Poster
02	<b>O. Agbenorku</b>	Ghana	The Role of the Regulatory Authority in the Security of Radioactive Materials in Ghana
13	<b>L. Rozdylouskaya</b>	Belarus	Improving radiation-hygiene regulations in light of protection of the public from new nuclear activities: experience of the Republic of Belarus
21	<b>S.B. Utami</b>	Indonesia	Establishing Regulatory Infrastructure For Radiation Safety: Sustainability to Enhance Safety and Security
22	<b>A. Hayani</b>	Indonesia	Improvement of Indonesian government regulation on the licensing of radiation generator and radioactive material utilization
29	<b>H. Janzekovic</b>	Slovenia	Experiences in inspections of industrial facilities using radiation sources
31	<b>K.P. Adhikari</b>	Nepal	Regulatory System on Radiation in Nepal: Long Overdue
34	<b>J.F. Beyala Ateba</b>	Cameroon	Graded approaches for the authorization of ionizing radiation sources in Cameroon
47	<b>C. Salata</b>	Brazil	Evolution of Brazilian radiotherapy licensing in the last 5 years
57	<b>J.L. Zafimajato</b>	Madagascar	Safety-Security interface in Madagascar: Challenges and Opportunities with the Implementation of the Code of Conduct on the Safety and Security of Radioactive Sources
59	<b>E. Yuliati</b>	Indonesia	The Challenge of NORM Authorization in Indonesia
62	<b>K. Pa Pa Tun</b>	Myanmar	Strengthening Effectiveness of Regulatory System in Myanmar- Promoting and Maintaining Regulatory Infrastructure for the Control of Radiation Sources
65	<b>A. Fakhruddin</b>	Malaysia	Radiation Personnel Awareness towards Regulation in Nuclear Security based on Self-Assessment survey by IAEA
67	<b>C. Gamulani</b>	Malawi	Establishing Regulatory Infrastructure for Radiation Safety in Malawi
69	<b>H.P. Yuwana</b>	Indonesia	Current Status and Challenges in the Development of Regulation for the Safety and Security of Transport of Radioactive Material in Indonesia
76	<b>M.L. De Lara Costa</b>	Brazil	Challenges in regulating radiation sources in mining facilities subject to dam break scenarios
83	<b>P.K. Gyekye</b>	Ghana	Regulating Medical and Industrial Applications of Radiation in Ghana: Challenges, Good Practices and Experiences

Poster No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Poster
86	<b>C. Yegros</b>	Paraguay	Evaluation of operation and quality control of mammography
89	<b>W. Dridi</b>	Tunisia	The preliminary Probabilistic Safety Assessment study of the CNSTN Gamma Irradiation Facility
96	<b>O. Okoya</b>	Nigeria	The Evolution of the Regulatory Infrastructure for Radiation Safety in Nigeria
109	<b>J.R. Fernandez</b>	Philippines	The Philippine Experience in Regulating Safety and Security of Category 1 and 2 Radioactive Sources
110	<b>S. Sawe</b>	United Republic Tanzania	Strengthening Regulatory Control of Radioactive Sources: The Case of Tanzania
112	<b>A. Chilulu</b>	Zambia	Safety and security of radioactive waste
117	<b>L.A.M. Quiroz</b>	Chile	Regulatory requirements for building radiopharmacy facilities
130	<b>N. Ramamoorthy</b>	India	Practice-specific challenges in the management of regulatory functions of radiation sources and medical facilities
135	<b>S. Ibáñez Bravo</b>	Bolivia	Regulating medical application of radiation in Bolivia
137	<b>N. Helal</b>	Egypt	Correction Methods Applied on the Image Contrast of MPI in SPECT/CT Hybrid Systems: The Diagnostic Needs and the Necessary Regulations for Good Practice
140	<b>R.H. Alvarez</b>	Cuba	Regulatory perspective and challenges of occupational radiological protection in medical practice
141	<b>S.I. Saufi</b>	Malaysia	Establishment and development of standard operating procedures (sops) in diagnostic and therapeutic nuclear medicine services in Malaysia: coalition between regulators and medical institutions
142	<b>M.S. Tall</b>	Senegal	Regulatory Challenges in Regulating Radiation Sources in Medical use in Senegal
155	<b>B. Costa Filgueiras</b>	Brazil	Artificial Intelligence Development on Proposed Methodology for Standardization on Evaluating Radiological Protection System Implementation in Regulatory Inspections: One Researching Agenda

### Topic 3: Cross-Cutting Regulatory Areas

Poster No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Poster
12	<b>D. Senior</b>	IAEA	Enhancing the management of regulatory experience towards improving the regulatory process
23	<b>M. Andersén</b>	Finland	Managing regulatory experience as part of continuous improvement at the Finnish Radiation and Nuclear Safety Authority (STUK)
24	<b>G. Gorashchenkova</b>	Ukraine	Public Communication: from Requirement to Reality
37	<b>N. Mughal</b>	Pakistan	Public Communication, Awareness, Involvement and Participation by PNRA
46	<b>B.B. Acar</b>	Turkey	Role of Nuclear Education Programs in the Enhancement of Nuclear Regulatory System in Turkey
51	<b>R. Maneechayangkoon</b>	Thailand	The Nuclear Security Inspection Guideline for Thailand BNCT
55	<b>I. Grlicarev</b>	Slovenia	Safety Culture in the Regulatory Body
64	<b>Md. Dulal Hossain</b>	Bangladesh	An Integrated Approach for Safety and Cyber Security of Digital I&C Systems in Nuclear Power Plants Combining Bowtie and Cyber Design Basis Threat Techniques
100	<b>H. Peng</b>	China	Improve nuclear safety with information technology in China
105	<b>M. Gustavsson</b>	Sweden	A comprehensive and integrated regulation of radiation protection, nuclear safety and nuclear security – The Swedish approach
118	<b>J.E. Ngaile</b>	United Republic of Tanzania	Towards effective regulatory infrastructure for control of radiation sources in Tanzania
125	<b>Z. Šimić</b>	European Commission	Non-Nuclear Regulatory Experience
150	<b>A. Al Remeithi</b>	United Arab Emirates	E-licensing system for improving the effectiveness of Regulatory Functions
151	<b>B. Al Ameri</b>	United Arab Emirates	Establishment of a comprehensive Radiation Safety infrastructure in the UAE

Poster No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Poster
162	<b>J.C. Poirier</b>	Canada	Integrating Regulatory Experience at the Canadian Nuclear Safety Commission (CNSC)

#### Topic 4: Leadership and Management for Safety and Security

Poster No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Poster
05	<b>B. Bernard</b>	Belgium	Implementing a RB Safety Culture Self-assessment through a Safety Culture Maturity Matrix
06	<b>B. Bernard</b>	Belgium	Assessing safety culture within nuclear installations: Insights from a "Safety Culture Observation Process"
08	<b>S. Sinha</b>	India	Implementation of Integrated Management System in Atomic Energy Regulatory Board, India
43	<b>R. Hammad</b>	Pakistan	Safety Culture Self-Assessment at PNRA and PNRA response
58	<b>A. Nunez-Carrera</b>	Mexico	Integrated management systems for nuclear regulatory functions in Mexico
73	<b>H. Nguyen</b>	Viet Nam	State management on radiation and nuclear safety
87	<b>A. Simo</b>	Cameroon	Experience in Implementing Nuclear Safety and Security Regulatory Processes by Regulatory Authority information System (RAIS)
92	<b>P.K. Koralalage</b>	Sri Lanka	Sri Lanka's preparedness for nuclear and radiological emergencies
98	<b>W. Guo</b>	China	Nuclear Safety Culture in China
116	<b>L.A.M. Quiroz</b>	Chile	Regulator Approach to Promote the Safety Culture on Radiopharmacy Facilities
138	<b>M.F. Haris</b>	Malaysia	Inclusive Management of radiation safety and security: Involvement of people with special needs
160	<b>TA Warner</b>	Jamaica	An inclusive approach to the development of an effective ionizing regulatory environment in Jamaica

#### Topic 5: Strengthening International Cooperation

Poster No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Poster
97	<b>A.Simo</b>	Forum of Nuclear Regulatory Bodies in Africa (FNRBA)	FNRBA's Contribution for Strengthening Regulatory Infrastructure in African Embarking Countries
104	<b>E. Ampomah-Amoako</b>	Ghana	International cooperation efforts of the nuclear regulatory authority, Ghana
122	<b>N. Helal</b>	Egypt	Support Requirements for Safety Management for Decommissioning of Research Reactors
133	<b>M. Abdel Geleel</b>	Egypt	Identifying and addressing support needs in Relation to Radioactive Waste management in Egypt
145	<b>K.T. Olajos</b>	EC	Towards a European System of Nuclear Regulation: Enhancing Regional Cooperation in the Nuclear Field
147	<b>Y. Stockmann</b>	EC	Lessons Learned: The Nuclear Safety Training and Tutoring Programme supporting Nuclear Regulators
152	<b>P. Ottavainen</b>	Finland	Regulatory experiences related to improving the effectiveness of nuclear and radiation regulatory systems
153	<b>I. Mundia</b>	Kenya	Impact of Peer Review Missions on Regulatory Activities in Kenya
163	<b>M. de Cort</b>	EC	Advances in the systems to exchange international data and information in Europe in case of radiological/nuclear emergency
165	<b>A. Al Khadouri</b>	United Arab Emirates	Strengthening Regulatory and Technical Capabilities through International Cooperation

## IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

STI/PUB/1273	IAEA Safety Standards Series No. SF-1: Fundamental Safety Principles
STI/PUB/1465	IAEA Safety Standards Series No. GSR Part 1: Governmental, Legal and Regulatory Framework for Safety
STI/PUB/1578	IAEA Safety Standards Series No. GSR Part 3: Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards
STI/PUB/1507	IAEA Safety Standards Series No. SSG-16: Establishing the Safety Infrastructure for a Nuclear Power Programme
STI/PUB/1708	IAEA Safety Standards Series No. GSR Part 7: Preparedness and Response for a Nuclear or Radiological Emergency
STI/PUB/1468	IAEA Safety Standards Series No. SSG-12: Licensing Process for Nuclear Installations
STI/PUB/1361	IAEA Safety Standards Series No. TS-G-1.5: Compliance Assurance for the Safe Transport of Radioactive Material
STI/PUB/1129	IAEA Safety Standards Series No. GS-G-1.1: Organization and Staffing of the Regulatory Body for Nuclear Facilities
STI/PUB/1130	IAEA Safety Standards Series No. GS-G-1.3: Regulatory Inspection of Nuclear Facilities and Enforcement by the Regulatory Body
STI/PUB/1128	IAEA Safety Standards Series No. GS-G-1.2: Review and Assessment of Nuclear Facilities by the Regulatory Body
STI/PUB/1108	IAEA Safety Standards Series No. RS-G-1.4: Building Competence in Radiation Protection and the Safe Use of Radiation Sources
STI/PUB/1192	IAEA Safety Standards Series No. GS-G-1.5: Regulatory Control of Radiation Sources
STI/PUB/1583	IAEA Safety Standards Series No. GSG-4: Use of External Experts by the Regulatory Body
STI/PUB/1373	IAEA Safety Standards Series No. NS-G-2.12: Ageing Management for Nuclear Power Plants
STI/PUB/1449	IAEA Safety Standards Series No. SSR-5: Disposal of Radioactive Waste
STI/PUB/1483	IAEA Safety Standards Series No. SSG-14: Geological Disposal Facilities for Radioactive Waste
STI/PUB/1467	IAEA Safety Standards Series No. GSG-2: Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency
STI/PUB/1265	IAEA Safety Standards Series No. GS-G-2.1: Arrangements for Preparedness for a Nuclear or Radiological Emergency
STI/PUB/1635	Safety Reports Series No. 79: Managing Regulatory Body Competence
STI/PUB/1636	Safety Reports Series No. 81: Development of a Regulatory Inspection Programme for a New Nuclear Power Plant Project
STI/PUB/1218	Safety Reports Series No. 46: Assessment of Defence in Depth for Nuclear Power Plants
STI/PUB/1139	Safety Reports Series No. 25: Review of Probabilistic Safety Assessments by Regulatory Bodies
STI/PUB/1591	IAEA Nuclear Security Series No. 19: Establishing the Nuclear Security Infrastructure for a Nuclear Power Programme
STI/PUB/1590	IAEA Nuclear Security Series No. 20: Objective and Essential Elements of a State's Nuclear Security Regime
STI/PUB/1487	IAEA Nuclear Security Series No. 14: Nuclear Security Recommendations on Radioactive Material and Associated Facilities
STI/PUB/1488	IAEA Nuclear Security Series No. 15: Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control
STI/PUB/1348	IAEA Nuclear Security Series No. 9: Security in the Transport of Radioactive Material

STI/PUB/1481	IAEA Nuclear Security Series No. 13: Nuclear Security Recommendations on Physical Protection of Nuclear Material and Nuclear Facilities
STI/PUB/1386	IAEA Nuclear Security Series No. 10: Development, Use and Maintenance of the Design Basis Threat
STI/PUB/1347	IAEA Nuclear Security Series No. 7: Nuclear Security Culture
STI/PUB/1387	IAEA Nuclear Security Series No. 11: Security of Radioactive Sources
STI/PUB/1677	IAEA Nuclear Security Series No. 23-G: Security of Nuclear Information
STI/PUB/1685	IAEA Nuclear Security Series No. 25-G: Use of Nuclear Material Accounting and Control for Nuclear Security Purposes at Facilities
STI/PUB/1477	IAEA Nuclear Energy Series No. NG-T-3.10: Workforce Planning for New Nuclear Power Programmes
EPR-Method	Method for Developing Arrangements for Response to a Nuclear or Radiological Emergency Updating IAEA-TECDOC-953 (2003)
EPR-Embarking	Considerations in Emergency Preparedness and Response for a State Embarking on a Nuclear Power Programme (2012)
EPR-Public Communications	Communication with the Public in a Nuclear or Radiological Emergency
STI/PUB/1710	The Fukushima Daiichi Accident
IAEA/SVS/23	IAEA Services Series 23: Integrated Regulatory Review Service (IRRS) Guidelines for the Preparation and Conduct of IRRS Missions
IAEA/REP/REG	IAEA Report on Strengthening Nuclear Regulatory Effectiveness in the Light of the Accident at the Fukushima Daiichi Nuclear Power Plant
IAEA/PUB/CAT/2015/16	IAEA Publications Catalogue 2015/16
IAEA/CODEOC/2004	Code of Conduct on the Safety and Security of Radioactive Sources
IAEA/CODEOC/IMO-EXP/2012	Guidance on the Import and Export of Radioactive Sources



## **PARTICIPATION IN IAEA SCIENTIFIC CONFERENCES**

Governments of Member States and those organizations whose activities are relevant to the conference subject matter are invited to designate participants. In addition, the IAEA itself may invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Scientists interested in participating in any of the IAEA conferences should request information from the Government authorities of their own countries, in most cases the Ministry of Foreign Affairs or national atomic energy authority.

## **PUBLICATIONS**

### **Proceedings**

The proceedings of the conference containing all presentations and posters delivered at the conference, as well as the findings and recommendations, will be published by the IAEA as soon as possible after the conference.

### **Orders**

No registration fee is charged to participants but they are encouraged to order for themselves or on behalf of their supporting organization at least one copy of the proceedings. These can be obtained at a special price representing half the estimated sales price provided that they are ordered and paid for during the conference at the Conference Desk.

### **Other IAEA Publications**

All IAEA publications may be ordered directly from the Sales and Promotion Unit, International Atomic Energy Agency, P.O. Box 100, A-1400 Vienna, Austria.

Fax: (+43 1) 2600-29302  
Email: [sales.publications@iaea.org](mailto:sales.publications@iaea.org)  
Internet: <http://www.iaea.org/books>

## FORTHCOMING SCIENTIFIC CONFERENCES SCHEDULED BY THE IAEA

### 2020

International Conference on Nuclear Security (ICONS-2020) (CN-278), 10-14 February, Vienna, Austria

International Conference on Operational Safety of Nuclear Power Plants (CN-284), 11-15 May, Beijing, China

International Conference on Knowledge Management and Human Resources Development: Challenges and Opportunities (CN-282), 15-19 June, Moscow, Russia

International Symposium on Sustainable Animal Production and Health – Current Status and Way Forward (CN-281), 22-26 June, Vienna, Austria

International Conference on the Safe Transport of Radioactive Material (CN-280), 29 June to 3 July, Vienna, Austria

Scientific Forum (CN-283), 22-23 September, Vienna, Austria

International Conference on Molecular Imaging and Clinical PET-CT: Paving the Way Towards Personalized Medicine and Theranostics (IPET-2020) (CN-285), 5-9 October, Vienna, Austria

28th IAEA Fusion Energy Conference (FEC2020) (CN-286), 12-17 October, Nice, France

International Conference on the Management of Naturally Occurring Radioactive Materials (NORM) in Industry (CN-287), 19-23 October, Vienna, Austria

International Conference on Radiation Safety (CN-279), 9-13 November, Vienna, Austria

### 2021

International Conference on Advances in Radiation Oncology (ICARO3), 23-26 February, Vienna, Austria

International Conference on Topical Issues in Nuclear Installation Safety: Progressing from Evolutionary to Innovative Reactor Designs, 12-16 April, Vienna, Austria

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), 21-25 June, Vienna, Austria

Scientific Forum, 21-22 September, Vienna, Austria

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

International Ministerial Conference on Nuclear Power in the 21st Century, October

International Conference on Radioactive Waste Management: Technology Advancement and Good Practices, 1-5 November, Vienna, Austria

International Conference on the Safety and Security of Radioactive Sources, November, Vienna, Austria

5th International Conference on Nuclear Power Plant Life Management (PLIM), 6-9 December, Osaka, Japan

-----  
For information on forthcoming scientific meetings, please consult the IAEA web site: <http://www.iaea.org/events>