

International Conference on Global Emergency Preparedness and Response

19–23 October 2015, Vienna, Austria



PROGRAMME

Organized by the



IAEA

International Atomic Energy Agency

Organized by the



In co-operation with



Conference President:

Ramzi Jammal
Executive Vice-President and
Chief Regulatory Operations Officer
Canadian Nuclear Safety Commission
Canada

International Programme Committee:

E. Buglova, Chair	IAEA
H. Aaltonen	Finland
B. Ahier	Canada
L. Castle	Australia
G. Emi-Reynolds	Ghana
E. Erastov	Russia
T. Homma	Japan
L. Hubbard	Sweden
O. Isnard	France
F.K. Lee	Singapore
V. McClelland	USA
M. Ramerafe	South Africa
J. Salas	Chile
N. Valverde	Brazil
C.M. Blackburn	FAO
Z. Carr	WHO
K. Jackson	EC
A. King	INTERPOL
E. Lazo	OECD NEA
R. Martincic	IAEA
C. Nogueira Oliveira	IAEA

IAEA Secretariat:

Scientific Secretary:	E. Buglova	Head, IEC
Organizer:	J. Zellinger	MTCD
Administrative	M. Mykhailyshyna	NS-IEC
Support:	I. Merson	NS-IEC
	K. Pepovska	NS-IEC

Location of the Conference:

International Atomic Energy Agency
Vienna International Centre (VIC)
Boardroom B/M1, M Building
Wagramer Strasse 5
A-1400 Vienna, Austria

Direction to the VIC:

Metro, U-Bahn, U1: "Kaisermuhlen-VIC"

Working Language:

English

Resolutions:

No resolutions may be submitted for consideration on any subject; no votes will be taken

TIMETABLE

Sunday, 18 October 2015

14:30–18:00	Registration	Gate 1
17:00–18:00	ICPC Meeting	MOE67

Monday, 19 October 2015

08:00	Registration	(continued)
09:30–10:30	Opening Session	
10:30–11:00	Coffee/Tea Break	
11:00–13:00	Session 1	International Cooperation
13:00–14:00	Lunch Break	
14:00–14:30	Keynote 3B	
14:30–15:30	Session 2	Communications in an Emergency
15:30–16:00	Coffee/Tea Break	
16:00–18:00	Session 3A	Emergency Management – Part 1
18:00–20:00	Welcome Reception	

Tuesday, 20 October 2015

08:00–09:00	Workshop A	Protection Strategy in Nuclear Emergency
09:00–10:30	Session 3B	Emergency Management – Part 2
10:30–11:00	Coffee/Tea Break	
11:00–11:30	Keynote 3A	
11:30–13:00	Session 3C	Emergency Management – Part 3
13:00–14:00	Lunch Break	
14:00–14:30	Keynote 2	
14:30–15:30	Session 4	Past Emergencies
15:30–16:00	Coffee/Tea Break	
16:00–18:00	Round Table A	Nuclear Security/Safety Integration in an Emergency

Wednesday, 21 October 2015

08:00–09:00	Workshop B	Communication in an Emergency
09:00–10:30	Session 5A	Protection Strategy – Part 1
10:30–11:00	Coffee/Tea Break	
11:00–11:30	Keynote 5A	
11:30–13:00	Session 5B	Protection Strategy – Part 2
13:00–14:00	Lunch Break	
14:00–15:30	Session 5C	Protection Strategy – Part 3
15:30–16:00	Coffee/Tea Break	
16:00–18:00	Round Table B	Risk Communication and What is 'Safe'

Thursday, 22 October 2015

08:00–09:00	Workshop C	Public Communication
09:00–10:30	Session P	Posters Reviewing
10:30–11:00	Coffee/Tea Break	
11:00–11:30	Keynote 5B	
11:30–13:00	Session 6A	Education and Training – Part 1
13:00–14:00	Lunch Break	
14:00–14:30	Keynote 4	
14:30–15:30	Session 6B	Education and Training – Part 2
15:30–16:00	Coffee/Tea Break	
16:00–18:00	Round Table C	EPR – the Way Forward and Priorities

Friday, 23 October 2015

08:00–09:00	Workshop D	Medical Management in Radiation Emergencies
09:00–10:30	Session 7A	Public Health and Medical Response – Part 1
10:30–11:00	Coffee/Tea Break	
11:00–11:30	Keynote 7	
11:30–13:00	Session 7B	Public Health and Medical Response – Part 2
13:00–14:00	Closing Session	

Conference Area – M Building

Conference Room:	Boardroom B/M1 (1 st floor)
Workshops:	M3
Briefing Rooms:	MOE67 MOE68
Reception:	M Building, ground floor

Posters Presentations

Location: Boardroom B/M1

All posters will be displayed for the duration of the conference.

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

Exhibitions

Exhibits will be shown in the common areas of the **M Building** on the ground and 1st floor for the duration of the conference.

International Organizations Exhibits: MOE Exhibition Area

Commercial Exhibits: MO1 Exhibition Area 1 and 2

SUNDAY, 18 October 2015

14:30–18:00 **Registration and Distribution of Conference Material**

17:00–18:00 **ICPC Meeting**

MONDAY, 19 October 2015

08:00 **Registration and Distribution of Conference Material**

09:30–10:30 **OPENING SESSION**

R. Jammal
Conference President

Y. Amano
IAEA Director General

J. C. Lentijo
IAEA Deputy Director General,
Head of Department of Nuclear Safety
and Security

Addresses on behalf of international organizations:

P. Grenard
Special Assistant to the CTBTO Executive
Secretary for Programme & Technical
Coordination
Comprehensive Nuclear-Test-Ban Treaty
Organization (**CTBTO**)

M. De Cort
Project Leader Radioactivity Environmental
Monitoring, Joint Research Centre (JRC)
Institute for Transuranium Elements – Nuclear
Security Unit
European Commission (**EC**)

Q. Liang
Director Joint IAEA/FAO Division
Food and Agriculture Organization (**FAO**)

S. Niu
Senior Specialist, Labour Administration,
Labour Inspection and Occupational Safety
and Health Branch
International Labour Organization (**ILO**)

D. Pughiuc
Senior Deputy Director, Marine Environment International
Maritime Organization (**IMO**)

C. Ugarte
Director Emergency Preparedness and Disaster Relief
Pan American Health Organization (**PAHO**)

K. Shimomura
Acting Deputy Director-General and Chief Nuclear Officer
Nuclear Energy Agency of the Organization for Economic
Cooperation and Development (**OECD NEA**)

E. Van Deventer
Team Leader, Radiation Programme, Department of Public
health, Environmental and Social Determinants of Health,
World Health Organization (**WHO**)

X. Tang
Director, Weather and Disaster Risk Reduction Services
Department
World Meteorological Organization (**WMO**)

10:30–11:00 *Coffee/Tea Break*

MONDAY, 19 October 2015

11:00–13:00 **Session 1:**
International Cooperation

Chair: **S. Magnusson, Iceland**

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
160 (invited)	J.L. Lachaume J.F. Dodeman	France	International Cooperation on EP&R, a Necessity for ASN
183	E. Buglova	IAEA	Inter-Agency Committee on Radiological and Nuclear Emergencies
44	A. Mahjoub D. Mosbah	Arab Atomic Energy Agency (AAEA)	AAEA Role in Improving EPR Coordination Interventions among Arab Countries
45	V. Tanner	European Commission (EC)	Emergency Preparedness and Response Provisions of the New EU Basic Safety Standards
50	A. Muller	South Africa	Emergency Preparedness and Response Harmonisation, Cooperation and Collaboration through the Forum of Nuclear Regulatory Bodies in Africa
147	G. Song	China	International Cooperation and Exchange on Nuclear Emergency of China
148	M. Kalinowski	Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO)	Contribution of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) to IACRNE
116	A. Heinrich J. Zubarev	United States of America	The United States' International Emergency Management and Cooperation Program
173	X. Tang A. Soares R. Servranckx A. Muscat G. Wotawa	World Meteorological Organization (WMO)	Long Standing Cooperation Between WMO and IAEA

13:00–14:00 *Lunch Break*

MONDAY, 19 October 2015

14:00–14:30	Keynote 3B
184	S. Aoki United States of America Security and Safety Interface during a Nuclear or Radiological Emergency

14:30–15:30	Session 2
	Communications in an Emergency

Chair: **L. Hubbard, Sweden**

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
187	P. Meschenmoser	IAEA	140 Characters to Tell What is Safe - Communicating Radiation Emergencies in the Brave New Media World
189 (invited)	P. Rickwood	Austria	Journalists are First Responders too
158	P. Ngamilo L. Kifanga L. Meza	Tanzania	Communication Response during the Nuclear Emergency
56	M. Orita N. Takamura	Japan	Communication Radiation Risk in Kawauchi Village, Fukushima Prefecture

15:30–16:00	<i>Coffee/Tea Break</i>
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16:00–18:00	Session 3A
	Emergency Management – Part 1

Chair: **A. Cortes, Mexico**

182 (invited)	M. De Cort K. Bogučarskis, W.A.M. Janssens, K. Jackson C. Constantinou P. Kockerols T. Altzitzoglou B. Máté S. Hermesmeyer	EC	EC Radiological/Nuclear Information Exchange Systems ECURIE and EURDEP: Latest Developments and International Collaboration on EPR
2	M.N. Hussain M. Hussain	Pakistan	Regulatory Requirements for Management of Nuclear or Radiological Emergencies
180	B. Yao	China	New Progress in China's Nuclear Emergency Work

Session 3A – continued

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
5	B. Ramakrishnan V. Rajagopalan R. Perumudi Thiruridadhil V. Balasubramanian R. Sarraju M. V. Ravikumar B. Shantanu S.A.V. Satya Murty V.S. Challa	India	Design and Development of Online Nuclear Emergency Response System (ONERS) for the Kalpakkam Nuclear Site, India
20	B.L. Ng L.E. Goh G. Lee J. Koh D. Ng M. Ong F.K. Lee	Singapore	Evaluation Study of High Purity Germanium Detector in Detection of Radiation Sources in Container
31	Z.H. Amador Balbona	Cuba	Findings of Radiological Events in the Centre of Isotopes in Cuba

18:00–20:00 IAEA Reception – M Building (ground floor)

TUESDAY, 20 October 2015

08:00–09:00	Workshop A	S. Nestoroska Madjunarova, IAEA	Protection Strategy in Nuclear Emergency
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09:00–10:30	Session 3B Emergency Management – Part 2		
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Chair: **O. Isnard, France**

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
42	E. Kiema	Kenya	Linkage of Radiation Emergency Plan to the National Emergency Response Plans
51	G. Sugiyama J. Nasstrom B. Pobanz M. Simpson L. Glascoe	United States of America	Plume Modelling as a Component of an Integrated Radiological/Nuclear Response: National Atmospheric Release Advisory Center (NARAC) U.S. and International Support
53	P. Busatta R. Hugron	Canada	Royal Canadian Navy – Nuclear Vessel Visit Safety Program
71	C. Vandecasteele D. Degueudre H. De Neef	Belgium	Translation of the Emergency Planning Zone to an Intervention Zone: A Multidisciplinary Approach Improving Common Understanding and Implementation of Protective Actions
81	D. Fisher P. Cavaleri S. O'Connor	International Federation of Red Cross and Red Crescent Societies (IFRC)	Addressing Legal Challenges Faced by National Red Cross Red Crescent Societies in Nuclear Emergencies

10:30–11:00	<i>Coffee/Tea Break</i>		
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11:00–11:30	Keynote 3A		
105	M. Neate	UK	Unified Command - Evolution in Emergency Preparedness and Response

11:30–13:00	Session 3C Emergency Management – Part 3		
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Chair: **A. Erastov, Russian Federation**

(invited)	H. Yue	China	Progress on Emergency Management and Improvement In China
104	R. Howsley P. Legoux	World Institute for Nuclear Security (WINS)	Security Incident Management; Challenges and Best Practices
130	J. Anderson	United States of America	Challenges in Evaluating Reductions in Emergency Preparedness Requirements for Decommissioning Nuclear Power Plants
136	E. Gosset	France	French National Response to a Nuclear or Radiological Accident

Session 3C – continued

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
138	L. Castle	Australia	Challenges and Benefits of Safety and Security Integration
139	G. Hirth S. Muston M. Grzechnik S. Solomon L. Castle M. Uzzell	Australia	Development of a Functional Model as Part of a Review of Australian Emergency Preparedness and Response Arrangements for Visits by Nuclear Powered Vessels to Australian Ports
13:00–14:00 <i>Lunch Break</i>			

TUESDAY, 20 October 2015

14:00–14:30	Keynote 2		
179	E. Brenner	United States of America	Communicating with the Public and Media in a Nuclear Emergency: Early, Often and Clearly

14:30–15:30	Session 4		
	Past Emergencies		

Chair: **H. Aaltonen, Finland**

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
155 (invited)	V. Kutkov	Russian Federation	Radiation Protection of the Emergency Workers Regaining Control over Radioactive Material Inside Destroyed Unit IV of the Chernobyl NPP
188 (invited)	T. Homma	Japan	What We have Learned from the Fukushima Daiichi Accident on Emergency Preparedness and Response
35	R. Maurer S. Buntman H. Adams	United States of America	Adjudication of Radiation Alarms on Detained Cargo Containers
67	N. Vlasova A. Rozhko Y. Visenberg E. Drozd	Belarus	Dose Assessment in Population Living on Contaminated Territories at the Remote Period after the Chernobyl Accident

15:30–16:00	<i>Coffee/Tea Break</i>		
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16:00–18:00	Round Table A		Nuclear Security/Safety Integration in an Emergency
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Moderator:	P. Jammet	France
Panellists:	M. Khaliq	IAEA
	V. McClelland	United States of America
	D. Bokov	Russian Federation
	B. Yao	China
	M. Neate	UK
	R. dos Santos	Brazil
	J. Joly	France

Wednesday, 21 October 2015

08:00–09:00 Workshop B G. Winkler, IAEA Communication in an Emergency

09:00–10:30 Session 5A
Protection Strategy – Part 1

Chair: M. Nizamska, Bulgaria

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
164 (invited)	A. Mozas	Spain	New Strategies for Emergency Management in Spanish Nuclear Power Plants
174 (invited)	E. N. Holo	Norway	Protection Strategies – National and Regional Experience
12	G. Pillar P. Jamet P. Majerus	Switzerland France Luxembourg	New European Approach for Cross-border Emergency Preparedness
26	Y. Lee S-H. Park S-Y. Jeong	Republic of Korea	Study of Criteria for Foodstuffs Control Following a Radiological Emergency in Korea
48	S.D. Lee	USA	Evaluation of Radiological Containment Technologies for Early Phase Response

10:30–11:00 Coffee/Tea Break

11:00–11:30 Keynote 5A
186 **F. Gering** Germany Protection Strategy in an Emergency

11:30–13:00 Session 5B
Protection Strategy – Part 2

Chair: C. Blackburn, FAO

60	T. Ikaheimonen J. Lahtinen S. Klemola J. Huikari K. Peräjärvi P. Vesterbacka K. Vesterbacka	Finland	Monitoring Strategy to Promote Efficient Response and Preparedness in Radiological Emergency
65	D. Degueldre C. Vandecasteele L. Depuydt	Belgium	Recent Initiatives for Improving the Protection of the Intervening Personnel during a Nuclear or Radiological Emergency in Belgium
72	N. Takamura	Japan	Radiocesium Concentrations in Wild Mushrooms Collected in Kawauchi Village After the Accident at the Fukushima Daiichi Nuclear Power Plant

Session 5B – continued

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
77	L.T. Rintala J. Huotilainen	Finland	Planning Emergency Arrangements for a Greenfield NPP Project
89	V. Smith C. Organo C. McMahon	Ireland	Stakeholder Views on the Implementation of Food and Agricultural Protective Actions in Ireland following a Nuclear Accident Abroad
13:00–14:00 <i>Lunch Break</i>			

Wednesday, 21 October 2015

14:00–15:30 Session 5C

Protection Strategy – Part 3

Chair: T. Homma, Japan

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
98	I. Hoffman K. Ungar L. Bergman	Canada	Special Environmental Radioactivity in Canada Report on Fukushima and Lessons for Comprehensive Environmental Monitoring Emergency Response
108	S. Lee G-B Lee B. Song	Republic of Korea	An Unmanned Aerial Vehicle-based Radiation Surveillance System
117	T. Homma M. Kimura S. Takahara	Japan	Risk-informed Approach to Evaluate Effective Protective Actions for a Nuclear Emergency
134	T. Furukawa S. Araki	Japan	Revised Protection Strategies for EPR Based on Lessons Learned from the Fukushima Accident
141	F. Stephani E. Codez	France	Expertise Methodology for the Assessment and the Prognosis of the Status of a NPP: the 3D/3P Approach

15:30–16:00

Coffee/Tea Break

16:00–18:00 Round Table B

Risk Communication and What is 'Safe'

Moderator: A. Gonzales

Argentina

Panellists:

C. Blackburn

FAO

E. Brenner

United States of America

J. Brent

WHO

J. Joseph

India

P. Meschenmoser

IAEA

W. Weiss

Germany

G. Williams

Australia

Y. Zhao

China

THURSDAY, 22 October 2015

08:00–09:00 **Workshop C** P. Meschenmoser, IAEA Public Communication

09:00–10:30 **Session P**
Poster Viewing

10:30–11:00 Coffee/Tea Break

11:00–11:30 **Keynote 5B**
181 **L. Sigouin** Canada Operational Aspects of Assessment and Prognosis - Experience and Approach of the Canadian Regulator

11:30–13:00 **Session 6A**
Education and Training – Part 1

Chair: **M. Ong, Singapore**

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
177 (invited)	P. Wieland	Brazil	Preparing Decision Makers for Emergency Situations
13	K. Gagne	Canada	Implementation of a Canadian Nuclear Exercise Program and Reflections on the Largest Canadian National Nuclear Exercise - Exercise Unified Response
23	S. Larocque	Canada	Canadian Medical Emergency Treatment for Exposure to Radiation (METER) Training Recent Developments
34	R. Maurer S. Buntman R. Stump	United States of America	International Radiological Assistance Program Training for Emergency Response (I-RAPTER) Training Program

13:00–14:00 *Lunch Break*

THURSDAY, 22 October 2015

14:00–14:30	Keynote 4		
159	A. Gonzales	Argentina	Dealing with the Aftermath of a Nuclear Accident: Challenges, Lessons Learned, Solutions

14:30–15:30	Session 6B		
	Education and Training – Part 2		

Chair: **J. Salas, Chile**

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
74	L. Villanueva	Chile	Experience and Lessons Learned from Table Top Exercises for Radiological Emergency Response in Chile
94	P. Wasiolek R. Maurer	United States of America	International – Aerial Measuring System (I-AMS) Training Program
118	C. Fontana F. Fontana E. Cosimi V. Badalone M. Krottmayer G. Ponzo U. Angeloni S. Salimei	International Federation of Red Cross and Red Crescent Societies (IFRC)	CBRN International Summer School “ItRC”

15:30–16:00	<i>Coffee/Tea Break</i>		
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16:00–18:00	Round Table C		EPR – the Way Forward and Priorities
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Moderator: **A. Heinrich** **United States of America**

Panellists: T. Homma Japan
D. Drabova Czech Republic
P. Majerus Luxembourg
S. Haywood UK
W. Tonhauser IAEA
M. Hirano Japan
R. Lewis United States of America
E. Buglova IAEA

Friday, 23 October 2015

08:00–09:00	Workshop D	N. Valverde, Brazil	Medical Management in a Nuclear/Radiological Emergency
09:00–10:30	Session 7A Public Health and Medical Response – Part 1		
Chair:	Z. Carr, WHO		
No. of Paper IAEA-CN-213	Name	Designating Member State/Organization	Title of Paper
170 (invited)	E. Bey J.J. Lataillade J.C. Amabile M. Benderitter	France	Cooperation Between France and IAEA: Medical Management of Radiological Accident
7	O. Garcia M. Digiorgio T. Mandina C. Guerrero-Carbajal C. Arceo-Maldonado G.E. Cortina-Ramírez M. Espinoza W. Martínez-López M. Di Tomasso M. Vallergera A. Radl M.R.Taja M. Stuck Oliveira P. Valdivia A.I. Lamadrid J.E. González I. Romero	Cuba	The Latin American Biological Dosimetry Network Role in the Regional Radiation Emergency Response
22	M. Muikku H. Korpela J. Huikari C. Lindholm T. Parviainen W. Paile	Finland	Lessons Learnt from a 131I Contamination Case in Production of Radiopharmaceuticals
11	A. Wiley	United States of America	A New Paradigm and Protocol for Enabling Local Health Care Professionals to Manage the Stochastic and Deterministic Risks Associated with Internal Contamination Following Radiological Mass Casualty Scenarios
10:30–11:00	Coffee/Tea Break		

Friday, 23 October 2015

11:00–11:30 **Keynote 7**
166 **Renthy K. Chhem** Cambodia Global Radiation Emergency: Physicians as Narrative Mediator

11:30–13:00 **Session 7B**
Public Health and Medical Response – Part 2

Chair: **N. Valverde, Brazil**

<i>No. of Paper IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
167 (invited)	M. Akashi	Japan	Role of basic knowledge of radiation and its effects in radiation emergency
185 (invited)	Z. Carr	World Health Organization (WHO)	Public Health Consequences of Radiation Emergencies: WHO Agenda
82	M. Tomonaga M. Krottmayr	International Federation of Red Cross and Red Crescent Societies (IFRC)	Emergency Medical Care in Nuclear Emergency Situations from the Perspective of a Humanitarian Relief Organisation
99	L. Bogdanova M. Grachev Y. Salenko	Russian Federation	Expert Support on Medical Emergency Response under FMBA of Russia for the Purpose of Global Response
107	P. Thompson J. Urtt M. Rickard A. McAllister	Canada	Consequences of a Hypothetical Severe Nuclear Accident – Perspectives on Health Consequences, Emergency Response and Transparency

13:00–14:00 **Closing Session**

Posters

<i>No. of Poster IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
Topic: <i>International Cooperation</i>			
30	C. Okada P. Wasiolek	United States of America	Aerial Radiological Measurement Compatibility in Emergency Incident Response
73	D. Rašeta S. Popović S. Medaković	Croatia	An Attempt to Harmonize Emergency Planning Zones And Other Emergency Parameters Between the Republic of Slovenia And the Republic of Croatia
163	A. Cortes	Mexico	Strengthening of National Capabilities for Response to Radiation Emergencies in Latin America
169	G.E. Kamdem Kamga	Cameroon	State Sovereignty and Compliance with International Law Regarding Emergency Preparedness and Response
176	M. Dmowska	Europol	Europol's CBRNE activities
Topic: <i>Communications in an Emergency</i>			
0	K. Bendam N. Dahbi	Morocco	Moroccan Experience in Emergency Communication/ Notification and Information Exchange Processes at National and International Levels using Unified System for Information Exchange in Incidents and Emergencies
29	N. Takamura	Japan	Experiences of Crisis and Risk Communications after the Accident at Fukushima Daiichi Nuclear Power Plant
150	M. Tulegenov S. Esimkhanov T. Zhantikin A. Kim	Kazakhstan	On Civil Protection Radiation Protection Republican Service of the Ministry of Energy of the Republic of Kazakhstan
154	A. Rababa	Jordan	Emergency Response and Notification
178	A. Gromann De Araujo Góes	Brazil	The External Emergency Plan for Angra dos Reis Nuclear Power Plant: The Risk Communication from an Evolutionary Perspective
Topic: <i>Emergency Management</i>			
21	E. Mansurov	Azerbaijan	The National Nuclear and/or Radiological Emergency Response Plan of the Republic of Azerbaijan
25	I.O.B. Ewa	Nigeria	Emergency Preparedness and Response Programs for the Nigerian Research Reactor
37	S. Sugarman R. Maurer L. Glascoe D. Van Etten B. Rees	United States of America	International Emergency Assistance at the US Department of Energy
38	P. Kuca I. Cespirova L. Skala	Czech Republic	Novel Optimized Monitoring System for Increasing Density of the Dose-Rate Monitoring Network in the Czech Republic

<i>No. of Poster IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
40	S. Sawe L. Kifanga	Tanzania	Status of the National Radiological Emergency Preparedness and Response in Tanzania
46	M.A. Musa I.I. Funtua B.B.M. Dewu	Nigeria	Status of Implementation of Integrated Nuclear and Radiological Emergency Response in Nigeria
52	B. Sher	United States of America	International Radiological Mapping Application (IRMA)
61	P. Armand C. Duchenne L. Glascoe	France	Dispersion of Radionuclides and Exposure Assessment in Urban Environments - A common CEA – LLNL / NARAC Table Top Exercise hold on 17-18 June 2014
62	I. Cespirova L. Gryc J. Helebrant	Czech Republic	Remote Mapping of the Radiation Field Using Drone
75	W. Bakr	Egypt	National Arrangements for Enhancing the Preparedness and Response to N/R Emergencies
78	C. Pappas A. Ikonomopoulos S. Andronopoulos A. Sfetsos A. Papathanassiou O. Aneziris M. Varvayanni N. Catsaros A.K. Stubos D. Mitrakos C. Potiriadis	Greece	Lessons Learned from Implementing an EC Funded Project on Radiological and Nuclear Preparedness in Greece
87	L.F. Yamil J.L. Paredes P. Jerez	Cuba	Experience in Cuba in the Integrated Planning and the Coordination Among Security Nuclear vs Safety in Radiological Emergencies Response: Support of the IAEA
92	V. Ivanov V. Usoltsev	Russian Federation	Estimation of Radiological Risk from Emergency Exposure for Workers of the State Atomic Energy Corporation Rosatom
93	C. Martins	Brazil	Multi Targeted Approach for Emergency Preparedness and Response
111	S. Sulaiman I. Sambo T. Akpa	Nigeria	Development of a National Nuclear and Radiological Emergency Plan in Nigeria
112	M. Rodriguez I. Sadañiowski S. Baldomir	Argentina	Geographic Information System (GIS) Applied to Nuclear Accident Response
115	M. Rickard P. Thompson	Canada	Development of Guidelines for Post-Accident Recovery - An Overview of the Canadian Approach and Plans for Stakeholder Consultation and Engagement
119	R. Paci	Albania	Role of Regulatory Authority in Response to Radiological Emergency Albania
122	R. Hernández Álvarez K. Soler Bascó I. Alonso González	Cuba	Experiences of the Cuban Regulatory Authority in Accident Prevention in the Medical Practice

<i>No. of Poster IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
125	L. Castle	Australia	Mitigation or Render Safe: A Non-linear Approach to Managing CBRN Counter-Terrorism Events
126	J. Bosnjak	Bosnia and Herzegovina	The Role of the Regulatory Body in the Radiation Emergency Management in a Non-Nuclear Country
131	J. Anderson	United States of America	Response and Recovery Lessons Learned from the Southern Exposure 2015
132	R. Kahler	United States of America	Integration of Hostile Action Based Events into NRC Requirements for Nuclear Power Plant Emergency Preparedness Programs
135	N. Al-Awadhi	Kuwait	Nuclear and Radiological Emergency Preparedness & Response in Kuwait: National Approach and Regional Perspective
140	P. Sotomayor	Chile	Chilean Experience in Developing and Implementing Inter-Agency Coordination Protocols for Preparedness and Response to Radiological Emergencies, in the Context of CONSER's Agenda 2015
149	M. Nizamska	Bulgaria	Bulgarian Nuclear Regulatory Agency - Role and Responsibilities in Case of Nuclear or Radiological Emergency
151	K.-W. Kim K.-Y. Lee E.-H. Lee D.-Y. Chung J.-K. Moon	Republic of Korea	An Emergency Countermeasure against Radioactive Wastewater Rapidly-Generated in Severe Nuclear Accidents Similar to Fukushima Daiichi
153	I. Gunawan	Indonesia	Emergency Preparedness in Radioactive Transport (A Revision of Government Regulation No. 26 Year 2002 on Radioactive Transport)
156	K. Jasim	Iraq	Emergency Preparedness and Response in Iraq
165	M.A.El R.A. Salama	Egypt	Nuclear Activities in Egypt and the Need for a National Radiological Response Plan
172	X.Tang S. Soares R. Servrackx A. Muscat G. Wotawa	WMO	WMO's Emergency Response Activities (ERA) Programme
178		Brazil	

Topic:	<i>Past Emergencies</i>		
14	B. Samimi	Iran	Radiation Protection Measures during and after Fukushima Daiichi Nuclear Accident in Iran
41	A. Ioannidou	Greece	The Chernobyl and Fukushima Incidents and their Impact in Northern Greece
84	R.D. Randriantsizafy	Madagascar	Email and Mobile Communications during the September 2014 Radiological Emergency Management In Madagascar
88	S. Krasnoperov	Russian Federation	Experience of TCC IBRAE Ran in Response to Radiation Emergencies
95	S. Maciel Sánchez	Mexico	Real Cases Facing Emergency Situations in Mexico

<i>No. of Poster IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
102	D.B. Khadka	Nepal	Status of Radiation Emergency Preparedness and Response in Nepal: Present and Future
142	JF. Dodeman	France	Actions of French Nuclear Safety Authority following the Fukushima Daiichi Nuclear Power Plant Accident
161	M. Hanciles	Sierra Leone	Radiological Response in Radioactive Contamination
Topic:	<i>Protection Strategy</i>		
15	S. Chupryna V. Bogorad O. Pecherytsa	Ukraine	Protection of Emergency Workers in Ukraine – Requirements, Practice, Past Experience
18	S. Reinhardt	Germany	In-situ Spectroscopic Gamma Monitoring for Emergency Response Monitoring
24	S. Volkan S. Senturk Lule	Turkey	Assessment and Prognosis of Local Radioactive Incident Using Atmospheric Dispersion Modelling
33	L. Bergman	Canada	Revision of Health Canada's Canadian Guidelines for Protective Actions during a Nuclear Emergency
47	J. Szabo S.D. Lee V. Popov	United States of America	Persistence of ¹³⁷ Cs, ⁶⁰ Co and ⁸⁵ Sr on Drinking Water Infrastructure and Assessment of Decontamination
58	A. Kuryndin A. Shapovalov A. Stroganov	Russian Federation	Improvement of National Regulations on Preparedness for Nuclear and Radiological Emergencies
66	A. Rodna	Romania	Proposal for an Approach on Generic Criteria for Doses Received within a Short Period of Time for Which Protective Actions and other Response Actions are Expected to be Undertaken Under any Circumstances to Avoid or to Minimize Severe Deterministic Effects and on Restricting Exposure of Emergency Workers In Case that Both External and Internal Exposure are Involved
69	G.-B. Lee Y.-H. Yang W. Sohn S.-H. Park M.-S. Kim	Republic of Korea	Development of Integrated Dose Evaluation System for Radiological Emergency Response
70	L. Gryc I. Cespirova J. Sury	Czech Republic	Advanced Ground Vehicle for Radiation Monitoring Equipped with new Generation Detectors
86	R. Hernández Álvarez K. Soler Bascó I. Alonso González	Cuba	Experiences of the Cuban Regulatory Authority in Accident Prevention in the Medical Practice
100	S. Jovanovic A. Dlabac	Montenegro	Applicability of ANGLE Software to Rapid and Accurate Assessment of Food, Water, Soil and Other Sample Types in Nuclear and Radiological Emergency

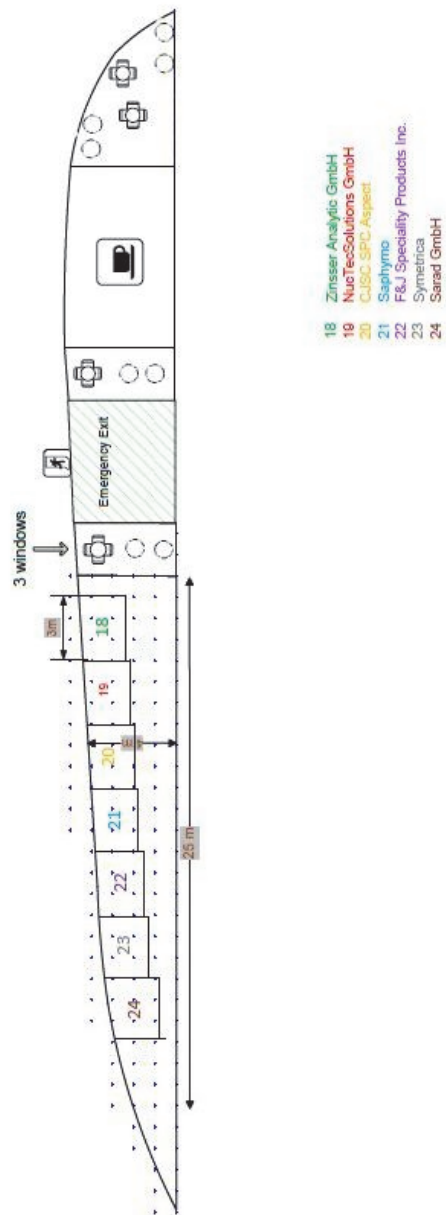
<i>No. of Poster IAEA-CN-213</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
106	C. Debayle E. Manach G. Manificat MA. Gonze C. Dubreuil	France	Aerial Gamma Measuring System in IRSN (France)
113	K. Petrova M. Hort D. Fuchsova J. Matzner	Czech Republic	Selected Radiation Protection Issues related to EPR in the Draft of New Czech Legislation and Exchange of Information in Emergency
120	J. Zhang	China	China's Public Protection Strategies on Nuclear Emergency
143	A. Mathieu O. Saunier D. Didier V. Winiarek M. Bocquet	France	An Inverse Modelling Method to Assess the Atmospheric Releases of a Nuclear Accident by Using Environmental Observations
145	A.E. Nedelcu A. Negoiescu E. Bobric I. Popescu F. Dumitru V. Simioniov	Romania	Protection Strategies during Emergency Situation at Cernavoda NPP
146	S. Vasilev S. Yarmiychuk	Russian Federation	Emergency Response Center of the Rosatom: Duties and Activities
157	M. Suliman	Sudan	Radiological Emergency Response Sudanese Customs Level
168	A. Stavrov E. Yamamoto	Belarus	Verification of NORM and Detection of Radioactive Sources under Background Suppression by PVT based Portal Monitors
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1	M.M. Khan M. Sadiq	Pakistan	Pakistan's Strategy for Capacity Building of Stakeholders to ensure Co-ordinate and Enforce Radiation Emergency Plans
85	A. Mattila A. Kuusi	Finland	Systematic Approach to Emergency Preparedness and Response Training
137	A. Schmid	Austria	Practicing Improvisation: the Missing Link in Nuclear Emergency Response Training
144	E. Quentric JP. Benoit D. Didier M. Tombette D. Quelo A. Mathieu I. Korsakissok	France	ScenarX : a Platform for the Simulation and Broadcasting of Fictitious Environmental Measurements during Emergency Exercises
162	M. Podobnik	Teletrix	Elevating Realism and Hands-On Detection Activities in Radiation Detection Training and Emergency Preparedness Drills

Topic: Public Health and Medical Response			
4	J. Djounova-Velikova I. Guleva	Bulgaria	Medical Follow-up of Persons Accidentally Exposed to ⁶⁰ Co in Bulgaria
6	A. Mastauskas Z. Vaisiunas	Lithuania	Establishing the Biological Dosimetry Laboratory in Lithuania
8	A. Nikalayenka V. Kliaus	Belarus	The Medical Aspects of Response at the Chernobyl and the Fukushima Daiichi NPPs Accidents
49	J. Ancans A. Bajinskis A. Wojcik	Latvia	The Role of the Guidance for using MULTIBIODOSE Tools in Radiation Emergencies in Latvia
59	N.D. Pham Q. Tran	Vietnam	Biodosimetry - Emergency Preparedness and Response for Radiation Risks in Vietnam
83	I. Karachristou G. Terzoudi	Greece	The Use of Chromosomal Aberration Analysis in Non-Stimulated Lymphocyte Prematurely Condensed Chromosomes for Triage Biodosimetry
97	A. Abaza	Egypt	Radiation Accidents and Their Management: Review of Therapeutic Principles of Acute Radiation Syndrome
121	R. Gallegos Velasquez	Honduras	Creation of a Response Plan to Radiologic Emergencies in Honduras
124	S. Sugarman C. Iddins N. Dainiak	United States of America	Effective Integration of Health Physics into the Early Medical Management of Radiation Incident Victims

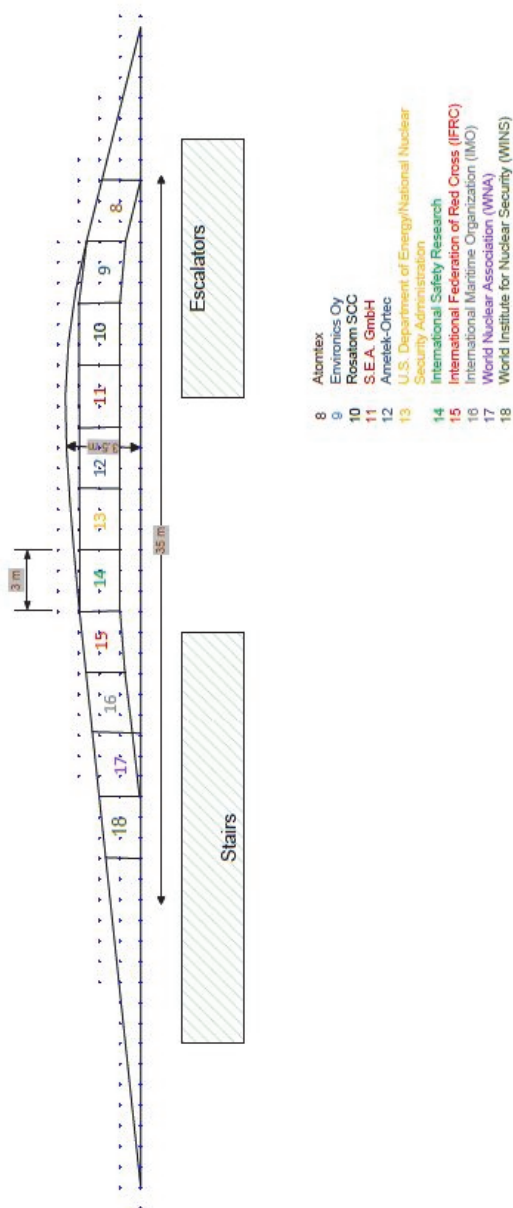
Exhibitions – MOE Exhibition Area



Exhibitions – MO1 Exhibition Area 1



Exhibitions – MO1 Exhibition Area 2



Conference Event Locations

Keynote presentations:	Boardroom B/M1
Sessions:	Boardroom B/M1
Refresher workshops:	M3
Round table discussions:	Boardroom B/M1
Welcome reception	MOE Ground Floor
Poster display area:	Boardroom B/M1
Conference admin:	MOE68
Chairperson room:	MOE67
Sponsored coffee breaks:	MOE Ground Floor and MO1 (from Monday until Thursday 10:30 to 11:00 a.m.)

PARTICIPATION IN IAEA SCIENTIFIC MEETINGS

Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants in IAEA scientific conferences and symposia. 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.

Representatives of the press, radio, television or other information media and members of the public, the latter as "observers", may also be authorized to attend, but without the right to take part in the proceedings.

Scientists interested in participating in any of the IAEA meetings 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

Orders

All IAEA publications may be ordered at the Registration Desk or directly from the Marketing and Sales Unit, Publishing Section
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IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE

TECDOC-955	Generic Assessment Procedures for Determining Protective Actions during a Reactor Accident	1997
TECDOC-1092	Generic Procedures for Monitoring in a Nuclear or Radiological Emergency	1999
TECDOC-1162	Generic Procedures for Assessment and Response During a Radiological Emergency	2000
EPR-Method	Method for Developing Arrangements for Response to a Nuclear or Radiological Emergency - updating IAEA-TECDOC-953	2003
EPR-Exercise	Preparation, Conduct and Evaluation of Exercises to Test Preparedness for a Nuclear or Radiological Emergency	2005
EPR-Medical	Generic Procedures for Medical Response during a Nuclear or Radiological Emergency	2005
EPR-D-values	Dangerous quantities of radioactive material	2006
EPR-First Responders	Manual for First Responders to a Radiological Emergency	2006
GS-G-2.1	Arrangements for Preparedness for a Nuclear or Radiological Emergency	2007
GSG-2	Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency	2011
EPR-Research Reactor	Generic Procedures for Response to a Nuclear or Radiological Emergency at Research Reactors	2011
EPR-TRIGA-Research Reactor	Generic Procedures for Response to a Nuclear or Radiological Emergency at TRIGA Research Reactors	2011
EPR-Biodosimetry	Cytogenetic Dosimetry: Applications in Preparedness for and Response to Radiation Emergencies	2011
EPR-Lessons Learned	Lessons Learned from the Response to Radiation Emergencies (1945-2010)	2012

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	2012
EPR-NPP Public Protective Actions	Actions to Protect the Public in an Emergency due to Severe Conditions at a Light Water Reactor	2013
IAEA-INES-2009	The International Nuclear and Radiological Event Scale (INES) User's Manual 2008 Edition	2013
IAEA/REP/EPR	IAEA Report on preparedness and response for a nuclear or radiological emergency in the light of the accident at the Fukushima Daiichi nuclear power plant	2013
INES-Event Communication	The Use of the International Nuclear and Radiological Event Scale (INES) for Event Communication	2014
EPR-Communication Plan	Method for Developing a Communication Strategy and Plan for a Nuclear or Radiological Emergency	2015
GSR Part 7	Preparedness and Response for a Nuclear or Radiological Emergency	2015
IAEA/REP/EPR	Assessment and Prognosis in Response to a Nuclear or Radiological Emergency	2015

FORTHCOMING SCIENTIFIC MEETINGS SCHEDULED BY THE IAEA

2015

International Conference on Research Reactors: Safe Management and Effective Utilization
16–20 November, Vienna, Austria

2016

International Conference on Human and Organizational Aspects of Assuring Nuclear Safety – Exploring 30 Years of Safety Culture
22-26 February; Vienna, Austria

International Conference on Effective Nuclear Regulatory Systems: Sustaining Improvements Globally
11-15 April; Vienna, Austria

International Conference on Advancing the Global Implementation of Decommissioning and Environmental Remediation Programmes
23-27 May; Madrid, Spain

International Conference on Integrated Medical Imaging in Cardiovascular Diseases (IMIC 2016)
10-14 October; Vienna, Austria

26th IAEA Fusion Energy Conference
17-22 October; Kyoto, Japan

3rd International Conference on Nuclear Knowledge Management – Challenges and Approaches
7-11 November; Vienna, Austria

International Conference on the Safety of Radioactive Waste Management
21-25 November; Vienna, Austria

2nd International Conference on Nuclear Security
5-9 December, Vienna, Austria

For information on forthcoming scientific meetings, please consult the **IAEA website**: <http://www.iaea.org/>

MOBILE CONFERENCE APPLICATION (for smart phones and tablets)

Participants may wish to download the conference application (App) available at Google Play and the iTunes Store.

Once downloaded, simply search for “IAEA Conference” where this conference will be featured.

The App allows you to:

- put together your own schedule and view up-to-date programme information;
- view ppt presentations of those speakers who have permitted their release after the presentation;
- interact with other participants and using the App
- submit your questions/comments during the sessions,

If you wish to do so towards the end of the conference, we would appreciate it if you could provide us with your feedback using the evaluation form available on the App.

If you have questions or require assistance on the App, please contact the Registration Desk, outside the conference room, Board Room B/M1, M Building.

CONFERENCE PROGRAMME

	Sunday 18-Oct		Monday 19-Oct		Tuesday 20-Oct	Wednesday 21-Oct	Thursday 22-Oct	Friday 23-Oct
Time	Time	Time			Time			
	8 ⁰⁰ – 10 ⁰⁰	Registration	8 ⁰⁰ – 9 ⁰⁰		Workshop A	Workshop B	Workshop C	Workshop D
	9 ³⁰ – 10 ³⁰	Opening	9 ⁰⁰ – 10 ³⁰		Session 3B	Session 5A	Session P	Session 7A
	10 ³⁰ – 11 ⁰⁰				Coffee/Tea Break			
	11 ⁰⁰ – 11 ³⁰		Session 1	11 ⁰⁰ – 11 ³⁰	Keynote 3A	Keynote 5A	Keynote 5B	Keynote 7
	11 ³⁰ – 13 ⁰⁰			11 ³⁰ – 13 ⁰⁰	Session 3C	Session 5B	Session 6A	Session 7B
	13 ⁰⁰ – 14 ⁰⁰				Lunch Break			
	14 ⁰⁰ – 14 ³⁰		Keynote 3B	14 ⁰⁰ – 14 ³⁰	Keynote 2	Session 5C	Keynote 4	Closing
	14 ³⁰ – 15 ³⁰		Session 2	14 ³⁰ – 15 ³⁰	Session 4		Session 6B	
15 ³⁰ – 18 ⁰⁰	Registration				Coffee/Tea Break			
17 ⁰⁰ – 18 ⁰⁰	ICPC Meeting		Session 3A	16 ⁰⁰ – 18 ⁰⁰	Round table A	Round table B	Round table C	
			Reception	18 ⁰⁰ – 20 ⁰⁰				

NOTES

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