

International Conference on Occupational Radiation Protection:

Enhancing the Protection of Workers —
Gaps, Challenges and Developments

1–5 December 2014
Vienna, Austria

PROGRAMME



Organized by the



IAEA

International Atomic Energy Agency

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In cooperation with:

European Commission (EC)

**International Commission on Radiation Units and
Measurements (ICRU)**

International Commission on Radiological Protection (ICRP)

International Committee for Non-Destructive Testing (ICNDT)

International Mining & Minerals Association (IMMa)

International Organisation of Employers (IOE)

International Radiation Protection Association (IRPA)

International Organization for Standardization (ISO)

International Society of Radiology (ISR)

**International Society of Radiographers and
Radiological Technologists (ISRRT)**

International Trade Union Confederation (ITUC)

OECD - Nuclear Energy Agency (OECD/NEA)

Pan American Health Organization (PAHO)

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

World Health Organization (WHO)

PRESIDENT OF THE CONFERENCE:

M. F. Weber, USA
US Nuclear Regulatory Commission
(USNRC)

PROGRAMME COMMITTEE:

C. Schieber, France (Chair)
D. Chambers, Canada
X. Chen, China
R. Czarwinski, IRPA
S. Fennel, Ireland
C. Flannery, USA
M. Gaunt, IOE
P.P. Haridasan, IAEA
L. E. Matta, Brazil
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W. Muhogora, United Republic of
Tanzania
S. Mundigl, EU
S. Niu, ILO
H. B. Okyar, OECD-NEA
L. B. Omrane, Tunisia
M. Perez, WHO
M. Pinak, IAEA
A. Rojo, Argentina
F. Shannoun, UNSCEAR
D. N. Sharma, India
N. Sugiura, Japan
T. Zodiates, ITUC

CONFERENCE SECRETARIAT:

Scientific Secretaries: J. Ma, IAEA
S. Niu, ILO

Conference Coordination: M. Khaelss, IAEA

Administrative Support: I. Pucher, IAEA
L. Dojcanova, IAEA
X. Chen, IAEA

Editor: M. K. Rock Zuccato, IAEA

LOCATION OF THE CONFERENCE:

International Atomic Energy Agency
Vienna International Centre (VIC)
M Building (1st floor), M1
Wagramer Strasse 5
1400 Vienna, Austria
Tel.: (+43 1) 2600 21315
Fax: (+43 1) 2600 7 21315

Working Language: English

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

TIMETABLE

Sunday, 30 November 2014

15:30–18:30 Registration and distribution
of conference material

Monday, 1 December 2014

08:00 Registration (continued)
10:00–11:20 **Opening Session**
11:20–12:45 **Briefing session:**
**Activities in occupational radiation
protection and main challenges**
12:45–14:00 Lunch Break
14:00–15:45 **Session 1:**
**International recommendations and
standards on occupational radiation
protection: Recent changes and the
challenges in their practical implementation**
15:45–16:15 Coffee Break / Poster Viewing Sessions 1 & 2
16:15–18:00 **Session 2:**
**Dose assessment of occupational radiation
exposures**
18:00–20:00 **Welcome Reception**
sponsored by Chiyoda Technol Corporation
(M-Building Ground Floor)

Tuesday, 2 December 2014

09:00–10:45 **Session 3:**
**Radiation effects and health risks from
radiation exposure at the workplace**
10:50–11:30 Coffee Break / Poster Viewing Session 3
11:30–12:30 **Round Table 1:**
Health risk management
12:30–14:00 Lunch Break and Poster Viewing
13:00–14:00 **Young Professionals Round Table**
14:00–15:45 **Session 4:**
**Dose record management of occupational
radiation exposures**
15:45–16:15 Coffee Break / Poster Viewing Sessions 4 & 5

Tuesday, 2 December 2014

16:15–18:00 **Session 5:**
**Occupational radiation protection in
industrial and research & education
facilities**

Wednesday, 3 December 2014

09:00–10:45 **Session 6:**
**Occupational radiation protection in
emergencies and existing (post-accident)
exposure situations**
10:50–11:30 Coffee Break / Poster Viewing Session 6
11:30–12:30 **Round Table 2:**
**The application and interpretation of
international standards in emergencies
preparedness and response**
12:30–14:00 Lunch Break and Poster Viewing
14:00–15:45 **Session 7:**
**Occupational radiation protection in the
workplaces involving exposure to naturally
occurring radioactive materials and cosmic
rays**
15:45–16:15 Coffee Break / Poster Viewing Sessions 7 & 8
16:15–18:00 **Session 8:**
**Occupational radiation protection in the
workplaces involving exposure to radon**

Thursday, 4 December 2014

09:00–10:45 **Session 9:**
**Occupational radiation protection in
medicine**
10:50–11:30 Coffee Break / Poster Viewing Session 9
11:30–12:30 **Round Table 3:**
**Occupational radiation protection in
medicine - the way forward**
12:30–14:00 Lunch Break and Poster Viewing
14:00–15:45 **Session 10:**
**Occupational radiation protection in
nuclear/fuel cycle facilities**
15:45–16:15 Coffee Break / Poster Viewing Sessions 10&11
16:15–18:00 **Session 11:**
**Education and training in occupational
radiation protection**

Friday, 5 December 2014

09:00–10:00	Session 12: Safety culture
10:00–11:00	Round Table 4: Challenges in implementing occupational radiation protection
11:00–11:30	Coffee Break / Poster Viewing Session 12
11:30–13:00	Enhancing the Protection of Workers: Conclusions on the Gaps, Challenges and Development

Display of posters

Posters will be on display throughout the conference in the Poster Exhibition Area at the back of the conference room. Poster viewing will take place during coffee and lunch breaks. Poster authors from the topics which are presented before and after the breaks are requested to be at their posters during this time.

Sunday, 30 November 2014

15:30–18:30 Registration and distribution
of conference material

Monday, 1 December 2014

08:00 Registration (continued)

10:00-11:20 **OPENING SESSION**

Chair: M. Pinak, IAEA

Opening Addresses:

Y. Amano, IAEA (video message)
Director General

D. Flory, IAEA
Deputy Director General
Head of Department of Nuclear
Safety and Security

N. Leppink, ILO
Chief, Labour Administration, Labour Inspection
and Occupational Safety and Health Branch

Conference President's address:

M. F. Weber, USA
Deputy Executive Director
US Nuclear Regulatory Commission (USNRC)

Chair: P. S. Hahn, IAEA

Keynote address:

K. Nakamura, Japan
Past and present perspectives on occupational
radiation protection

Plenary presentation:

G. Abela, France
Challenges on occupational radiation protection
in nuclear industry

Monday, 1 December 2014

11:20-12:45 BRIEFING SESSION

Activities in occupational radiation protection and main challenges

Chair: M. F. Weber, USA
P. Tattersall, UK

P. S. Hahn, IAEA
S. Niu, ILO
M. Garribba, EU
K. Shimomura, OECD-NEA
M. Crick, UNSCEAR
M. Perez, WHO
C. Clement, ICRP
R. Czarwinski, IRPA

12:45–14:00 *Lunch Break*

Monday, 1 December 2014

14:00-15:45

SESSION 1:
International recommendations and standards on occupational radiation protection: Recent changes and the challenges in their practical implementation

Chair: I. Lund, Sweden
S. H. Na, Republic of Korea

14:05-14:30

Topic Keynote Lecture:

M. Pinak, IAEA
Occupational Radiation Protection – stability and challenges in the view of the IAEA Basic Safety Standards

Topical Presentations:

14:30-14:45

S. Mundigl, EU
EURATOM basic safety standards

14:45-15:00

P.P. Haridasan, IAEA
Revision of the international guidance on occupational radiation protection

15:00-15:15

D. A. Cool, ICRP
ICRP system of protection: Present and future

15:15-15:30

Summary of Contributed Papers:
T. Zodiates, ITUC

15:30-15:45

Discussion

15:45–16:15

Coffee Break / Poster Viewing Sessions 1 and 2

Monday, 1 December 2014

16:15-18:00	SESSION 2: <i>Dose assessment of occupational radiation exposures</i>
Chair:	J. Hunt, Brazil F. Wissmann, Germany
16:20-16:45	Topic Keynote Lecture: H. Menzel, ICRU Radiation monitoring and dose assessment: Key requirements for the implementation of the principles of limitation and optimization in occupational exposure Topical Presentations:
16:45-17:00	F. Vanhavere, Belgium The status and challenges of external dosimetry
17:00-17:15	M. A. Lopez Ponte, Spain The status and challenges of internal dosimetry (technical aspects)
17:15-17:30	F. Queinnec, ISO Revision of ISO 15382: Answers to the challenges of monitoring the dose to the lens of the eye
17:30-17:45	Summary of Contributed Papers: S. Mundigl, EU
17:45-18:00	Discussion
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18:00-20:00	Welcome Reception <i>sponsored by Chiyoda Technol Corporation</i>

Tuesday, 2 December 2014

09:00-10:45	SESSION 3: <i>Radiation effects and health risks from radiation exposure at the workplace</i>
Chair:	F. Gobba, Italy M. Crick, UNSCEAR
09:05-09:30	Topic Keynote Lecture: W. Müller, UNSCEAR Radiation effects and health risks from radiation exposure at the workplace Topical Presentations:
09:30-09:45	J. N. Kleiman, USA Scientific and epidemiological background for radiation risk of the lens of the eye
09:45-10:00	R. Wakeford, ICRP Evidence of cardiovascular disease risk in the workplace
10:00-10:15	H. Zeeb, Germany Approaches for estimating probability of causation for compensation purposes
10:15-10:30	Summary of Contributed Papers: M. Perez, WHO
10:30-10:50	Discussion
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10:50-11:30	Coffee Break / Poster Viewing Session 3

Tuesday, 2 December 2014

11:30-12:30	ROUND TABLE 1: Health risk management
Chair:	R. Czarwinski, IRPA
	Statements:
11:30-11:45	S. Niu, ILO Health surveillance for workers occupationally exposed to radiation: Ethical and technical guiding principles
11:45-12:00	M. Perez, WHO Health examinations in different workplaces
12:00-12:15	O. Luxenburg, Israel Point of view from a Ministry of Health
12:15-12:30	Discussion
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12:30-14:00	<i>Lunch Break and Poster Viewing</i>
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13:00-14:00	YOUNG PROFESSIONALS ROUND TABLE
Chair:	M. Hajek, IAEA A. Hefner, Austria
13:00-13:10	Introduction of the Topic
13:10-13:40	Selected presentations
13:40-14:00	Discussion

Tuesday, 2 December 2014

14:00-15:45	SESSION 4: <i>Dose record management of occupational radiation exposures</i>
Chair:	S. Solomon, Australia F. A. Ollite, Mauritius
	Topical Presentations:
14:05-14:20	M. L. Tormo, Spain Issues in the management of the Spanish National Dose Registry
14:20-14:35	D. Melo, USA UNSCEAR requirements for occupational dose data
14:35-14:50	Q. Sun, China Individual monitoring and occupational dose record management in China: History, current status and perspectives
14:50-15:05	A. Rannou, France ESOREX-platform: A European platform for occupational radiation exposure
15:05-15:20	M. Tabra, Canada Occupational dose record management in Canada
15:20-15:30	Summary of Contributed Papers:
	F. Shannoun, UNSCEAR
15:30-15:45	Discussion
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15:45-16:15	<i>Coffee Break / Poster Viewing Sessions 4 and 5</i>

Tuesday, 2 December 2014

16:15-18:00	SESSION 5: Occupational radiation protection in Industrial and research & education facilities
Chair:	C. Flannery, USA M. Farley, ICNDT
16:20-16:35	Topic Keynote Lecture: R. Van Sonsbeek, Netherlands Occupational radiation protection in industrial radiography Topical Presentations:
16:35-16:50	A. A. Al Shehhi, UAE Issues in occupational radiation protection in industrial radiography: Regulator view
16:50-17:05	E. Martin, France Controlling the risk due to the use of gamma sources for NDT and first feedback from the deployment of replacement NDT Techniques
17:05-17:20	C. Kaps, Germany Training and education requirements for occupational radiation protection in industrial radiography
17:20-17:35	Haridas. G., India Occupational radiation protection at accelerator facilities: Challenges
17:35-17:45	Summary of Contributed Papers: M. Gaunt, IOE
17:45-18:00	Discussion
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18:00	<i>Adjourn</i>
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Wednesday, 3 December 2014

09:00-10:45	SESSION 6: <i>Occupational radiation protection in emergencies and existing (post-accident) exposure situations</i>
Chair:	A. Gonzalez, Argentina V. Kutkov, Russian Federation
09:05-09:30	Topic Keynote Lecture: S. Yasui, Japan Lessons learned: Radiation protection for emergency response and remediation / Decontamination work involved in TEPCO Fukushima Daiichi NPP accident Topical Presentations:
09:30-09:45	M. Savkin, Russian Federation Comparison of occupational radiation protection following the Chernobyl and Fukushima accidents
09:45-10:00	T. Suzuki, Japan The internal and external dosimetry challenges from past experience: Fukushima Daiichi accident
10:00-10:15	E. Anderson, USA ISOE expert group: Occupational radiation protection in severe accident management
10:15-10:30	Summary of Contributed Papers: S. Nestoroska Madjunarova, IAEA
10:30-10:50	Discussion
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10:50-11:30	<i>Coffee Break / Poster Viewing Session 6</i>
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Wednesday, 3 December 2014

11:30-12:30	ROUND TABLE 2: The application and interpretation of international standards in emergencies preparedness and response
Chair:	W. Weiss, Germany
	Statements:
11:30-11:45	E. Buglova, IAEA Protection of emergency workers and helpers: Recent developments in International Standards in emergency preparedness and response
11:45-11:55	A. Suzuki, Japan Emergency dose control for workers at the Fukushima Daiichi nuclear power station accident
11:55-12:05	S. Yasui, Japan Temporary increase in the emergency exposure dose limit in response to the TEPCO Fukushima Daiichi NPP accident
12:05-12:15	C. Clement, ICRP Occupational radiological protection: The ICRP perspective taking into account lessons from the Fukushima Daiichi accident
12:15-12:30	Discussion
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12:30–14:00	<i>Lunch Break and Poster Viewing</i>

Wednesday, 3 December 2014

14:00-15:45	SESSION 7: <i>Occupational radiation protection in the workplaces involving exposure to naturally occurring radioactive materials and cosmic rays</i>
Chair:	P.P. Haridasan, IAEA P. Shaw, UK
14:05-14:30	Topic Keynote Lecture: R. Garcia-Tenorio, Spain Challenges in implementing the change in regulations in the NORM industry
	Topical Presentations:
14:30-14:45	L. Neder, Brazil Practical experience and implementing occupational radiation protection and training in the oil & gas industry
14:45-15:00	C. Ma, China Regulatory status and challenges in NORM industries in China: Coal mining and rare earth mining
15:00-15:15	G. Frasch, Germany Air crew exposure to cosmic rays: challenges and management
15:15-15:30	Summary of Contributed Papers: L. E. Matta, Brazil
15:30-15:45	Discussion
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15:45–16:15	<i>Coffee Break / Poster Viewing</i> <i>Sessions 7 and 8</i>

Wednesday, 3 December 2014

16:15-18:00 **SESSION 8:**
Occupational radiation protection in the workplaces involving exposure to radon

Chair: **J. Takala, Canada**
S. Liu, China

16:20-16:45 **Topic Keynote Lecture:**
D. Chambers, Canada
Overview of occupational radon exposure - Past, present and future

Topical Presentations:

16:45-17:00 **J. Hunt, Brazil**
Development on our understanding of radon issues and forthcoming ICRP recommendations on radon DFC and dependency on aerosol size distribution

17:00-17:15 **W. Speelman, South Africa**
Challenges and implementation from a regulatory perspective

17:15-17:30 **C. Mason, Australia**
Practical implementation of anticipated radon dosimetry changes in the mining industry

17:30-17:45 **Summary of Contributed Papers:**
F. Harris, Australia

17:45-18:00 **Discussion**

18:00 *Adjourn*

Thursday, 4 December 2014

09:00-10:45 **SESSION 9:**
Occupational radiation protection in medicine

Chair: **C. Cousins, UK**
J. Vassileva, IAEA

09:05-09:30 **Topic Keynote Lecture:**
J. Malone, Ireland
Fostering Radiation Safety Culture: Occupational Radiation Protection in Health Care

Topical Presentations:

09:30-09:45 **K. H. Ng, Malaysia**
Improving optimization in occupational radiation protection in medicine

09:45-10:00 **I. Damilakis, Greece**
Education and training of health professionals in occupational radiation protection

10:00-10:15 **P. Ortiz Lopez, Spain**
Radiation protection of the staff in interventional procedures

10:15-10:30 **Summary of Contributed Papers:**
S. Fennel, Ireland

10:30-10:50 **Discussion**

10:50–11:30 *Coffee Break / Poster Viewing Session 9*

Thursday, 4 December 2014

11:30-12:30	ROUND TABLE 3: Occupational radiation protection in medicine - the way forward
Chair:	R. Padovani, Italy
	Statements:
11:30-11:35	D. Newman, USA A radiographer's perspective
11:35-11:40	M. C. Cantone, Italy A medical physicist's perspective
11:40-11:45	R. Hernández Alvarez, Cuba A regulator's perspective
11:45-11:50	M. Baelen, Belgium How to cope with basic safety regulation for which the IAEA guidelines do not exist?
11:50-11:55	P. Vock, ISR The perspective of the medical professional associations
11:55-12:00	R. Czarwinski, IRPA Role of the International Radiation Protection Association (IRPA)
12:00-12:30	Discussion
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12:30-14:00	<i>Lunch Break and Poster Viewing</i>

Thursday, 4 December 2014

14:00-15:45	SESSION 10: <i>Occupational radiation protection in nuclear/fuel cycle facilities</i>
Chair:	F. Vermeersch, Belgium B. Breznik, Slovenia
14:05-14:20	Topic Keynote Lecture: L. Vaillant, France Trends in occupational radiation exposure in nuclear fuel cycle facilities: An overview
	Topical Presentations:
14:20-14:35	E. Gaillard-Lecanu, France Design of new plants for occupational radiation protection and the occupational radiation protection targets
14:35-14:50	J. Kaulard, Germany Practical challenges in ongoing NPP decommissioning
14:50-15:05	J. Bishop, UK Occupational radiation protection at a reprocessing plant
15:05-15:20	H. Al Katheeri, UAE Future nuclear power plants in embarking countries: The challenge of preparing for occupational radiation protection
15:20-15:30	Summary of Contributed Papers: H. B. Okyar, OECD-NEA
15:30-15:45	Discussion
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15:45-16:15	<i>Coffee Break / Poster Viewing Sessions 10 and 11</i>

Thursday, 4 December 2014

16:15-18:00	SESSION 11: <i>Education and training in occupational radiation protection</i>
Chair:	A. Schmitt-Hannig, Germany A. Hammou, Tunisia
	Topical Presentations:
16:20-16:35	A. Luciani, IAEA The status of available radiation protection training through the IAEA and the support IAEA provides to Member States: Developing an education and training strategy for the country
16:35-16:50	L. I. Valentino, Argentina Nuclear regulatory authority - 30 years building competencies in radiological protection in Latin America
16:50-17:05	W. Muhogora, United Republic of Tanzania Achievements and challenges in radiation protection education and training: Tanzania's perspective
17:05-17:20	E. Gallego, IRPA The role of professional societies in promoting radiation protection education and training
17:20-17:35	C. Lefaure, France Learning from experience and sharing lessons learned: The role of networks
17:35-17:45	Summary of Contributed Papers: A. Rojo, Argentina
17:45-18:00	Discussion
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18:00	<i>Adjourn</i>
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Friday, 5 December 2014

09:00-10:00	SESSION 12: <i>Safety culture</i>
Chair:	S. Magnusson, Iceland R. Elmiger, Switzerland
	Topical Presentations:
09:05-09:15	B. Le Guen, IRPA IRPA guiding principles on radiation protection culture drawn up by RP professionals for the benefit of RP professionals
09:15-09:25	W. Harris, USA Developments in Safety Culture
09:25-09:35	A. M. Bomben, Argentina FORO Project on Safety Culture in organizations, facilities and activities with sources of ionizing radiation
09:35 -09:45	Summary of Contributed Papers: C. Flannery, USA
09:45-10:00	Discussion
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Friday, 5 December 2014

10:00-11:00 **ROUND TABLE 4:**
***Challenges in implementing occupational
radiation protection***

Chair: **R. Cruz Suarez, IAEA**

Statements:

10:00-10:05 **F. A. Ollite, Mauritius**
Challenges in implementing occupational
radiation protection in Africa

10:05-10:10 **K. Sakai, Japan**
Challenges of implementing occupational
radiation protection in Asia

10:10-10:15 **L. E. Matta, Brazil**
Challenges of implementing occupational
radiation protection in Latin America

10:15-10:20 **K. Petrova, Czech Republic**
Challenges of implementing occupational
radiation protection in Eastern Europe

10:20-10:25 **R. Cruz Suarez, IAEA**
Technical co-operation: Self-assessment &
ORPAS

10:25-10:30 **J. Hügel, Switzerland**
External Ionising radiation exposure during
cargo/vehicle radiographic inspections

10:30-10:35 **D. Chambers, Canada**
Role of IRPA for the implementation of ORP
in national countries

10:35-11:00 **Discussion**

11:00–11:30 *Coffee Break / Poster Viewing Session 12*

Friday, 5 December 2014

11:30-13:00 ***Enhancing the Protection of Workers:
Conclusions on the Gaps, Challenges and
Development***

Chair: **M. F. Weber, USA**
M. L. Perrin, France

11:30-11:35 **Presentation of the representative of
Young Professionals**

11:35-12:00 **C. Schieber, France**
A summary of conclusions from sessions
and roundtables of the conference

12:00-12:25 **A. Gonzalez, Argentina**
Overview of occupational radiation protection
in the past and looking forward to the future
challenges

12:25-12:50 **M. F. Weber, USA**
2014 Statement on Enhancing the
Protection of Workers against Exposure to
Ionizing Radiation (2014 Vienna Statement)

12:50-13:00 **Closing of the Conference**
P. S. Hahn, IAEA

LIST OF CONTRIBUTED FULL PAPERS

All contributed full papers are available on the USB-stick provided to registered participants.

Posters will be on display throughout the conference in the Poster Exhibition Area at the back of the conference room. Poster viewing will take place during coffee and lunch breaks. Poster authors from the topics which are presented before and after the breaks are requested to be at their posters during this time.

No of Paper IAEA- CN- 223-	Main Author	Designating Member State/ Organization	Title of Paper
Session 1.			
International recommendations and standards on occupational radiation protection: Recent changes and the challenges in their practical implementation			
109 p	Venkatachari, M.	India	"Occupational Radiation Protection in Indian Scenario" - Regulatory Instruments & Enforcement
116 p	Hiswara, E.	Indonesia	Overview of the Regulation on Occupational Radiation Protection in Indonesia
128	Samake, T.	Mali	Occupational Radiation Protection In Medicine In Mali
129 p	Adhikari, K.	Nepal	Occupational Radiation Protection in Nepal: Current Status, Issues & Challenges
118 p	Perez, C.	Brazil	Proposal for the Construction of Alpha Curves
214 p	Kasige, C.	Sri Lanka	Occupational Radiation Exposures in Sri Lanka
181 p	Hasford, F.	Ghana	Review of 10-year Whole-body Occupational Radiation Exposure for Radiation Workers in Ghana
219	Alexiev, A.N.	Bulgaria	Implementation of The International Recommendations and Revised Standards on Radiation Protection for Nuclear Facilities in Bulgarian National Legislation - Adopted Approach and Challenges
180	Raharimboan gy, V.	Madagascar	Collective Dose Assessment for Occupationally Exposed Workers in Madagascar During the Last 20 Years

No of Paper IAEA-CN-223-	Main Author	Designating Member State/Organization	Title of Paper
283	Nikolovska, L.	The former Yugoslav Republic of Macedonia	Dose Trends in Occupational Radiation Exposure in Republic of Macedonia
266	Sarowi, S.	Malaysia	Review on Radiation Workers Status in Malaysian Nuclear Agency
274 p	Fundarek, P.J.	Canada	A Review of Occupational Doses in Canada over the Period of 2008 to 2012, Reported through the CNSC Annual Safety Performance Reports for Nuclear Substances and Prescribed Equipment
156 p	Da Silva, F.	Brazil	Occupational Radiation Protection Structure implemented at Brazilian Research Institute of Radiation Protection and Dosimetry – IRD/CNEN
267 p	Muhogora, W.E.	United Republic of Tanzania	Challenges in Implementing Occupational Radiation Protection Program in Tanzania

Session 2.

Dose assessment of occupational radiation exposures

126 p	Helal, N.	Egypt	A Comparative Study between Mondal Software and a Constructed Model for Calculating Internal Exposure of some Radionuclides
117 p	Sapoi, R.C.	Romania	Extremities and Eye Lens Dosimetry in Romania: Challenges and Developments
184	Sabol, J.	Czech	Skin Exposure: A Specific

No of Paper IAEA-CN-223-	Main Author	Designating Member State/Organization	Title of Paper
130	Baradaran, S.	Islamic Republic of Iran	Problem in Occupational Monitoring Comparison of the Response and Behavior of TL Neutron - Gamma Dosimeters Used in Individual Dosimetry System for 241Am-Be and 252Cf Sources
169	Baptista de Freitas, M.	Brazil	A New Personal Dosimetry Badge Based on Combined Luminescence Techniques (TL and OSL)
212 p	Oyekunle, E.	Nigeria	Total Reference Air Kerma as a Dosimetric Parameter for Assessing Occupational Radiation Protection in Brachytherapy
134	Nilsson, V.	Sweden	Assessment of the Conformity of Dosimeters Used to Measure Dose to the Lens of the Eye - A Regulatory Approach
215 p	Antonio, P.L.	Brazil	Commercial TL and OSL Al ₂ O ₃ :C Detectors for Use in Beta Occupational Monitoring
220 p	Zutz, H.	Germany	Can a Medical LINAC Be Used for Testing Radiation Protection Dosemeters?
221 p	Friedrich, S.	Germany	Pulsed Radiation Facility with about 115 ns Pulse Durations - Characterization and Quality Assurance
222 p	Hupe, O.	Germany	Type Test Requirements and Reference Fields for Radiation Protection Dosimetry in Pulsed Radiation Fields
237 p	Mihai, F.	Romania	Doses Recorded through Occupational Exposures using Two Enshrined

No of Paper IAEA-CN-223-	Main Author	Designating Member State/Organization	Title of Paper	No of Paper IAEA-CN-223-	Main Author	Designating Member State/Organization	Title of Paper
235 p	Čemusová, Z.	Czech Republic	Passive Dosimetry Methods and Personal Monitoring Option				Dose Equivalent Hp(10) in Photon Fields in the Africa Region:
155 p	Lima, A.	Brazil	Angular Dependence of Two Different (LiF based) Eye Lens TL Dosimeters	264 p	Garcia Alves, J.H.	Portugal	Organization, Results and Recommendations of the Intercomparison 2013 EURADOS WG02:
			Equivalent Dose Estimation of Eye Lens on Planned Exposure	174 p	Bero, M.	Syrian Arab Republic	Actions: Harmonization of Individual Monitoring in Europe
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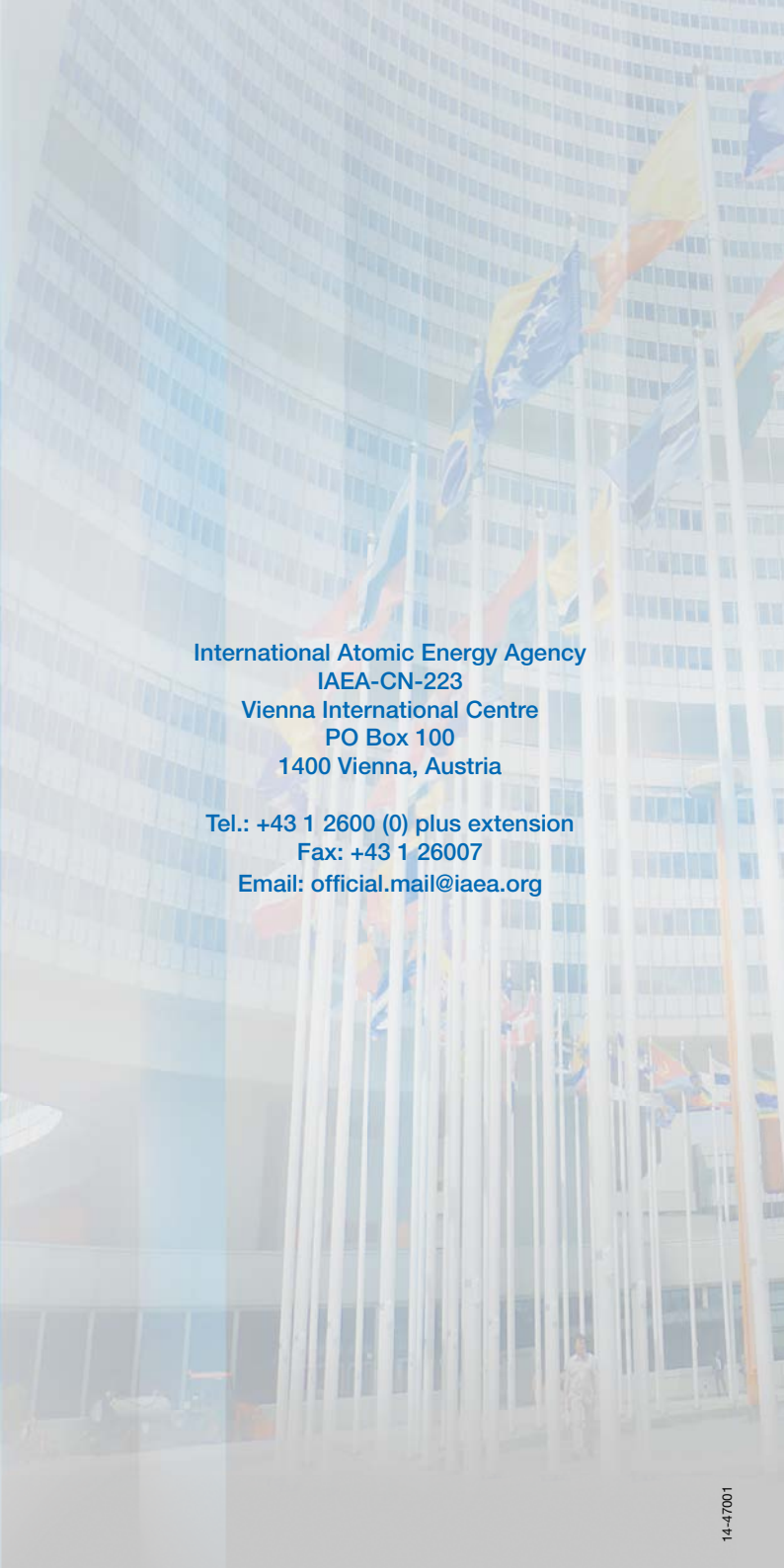
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