IRPA13 # Glasgow

13th International Congress of the International Radiation Protection Association

13 - 18 May 2012























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Final Programme



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RC1 Lomond	RC2 Alch		RC3 Boisdale	RC4 Dochart	RC5 Carron			RC6 Carron	RC7 Alsh	RC8 Boisdale	RC9 Dochart	RC10 Lomond		RC11 Carron	RC12 Alsh	RC13 Boisdale	RC14 Dochart	RC15 Lomond		RC16 Carron	RC17 Alsh	RC18 Boisdale	RC19 Dochart	RC20 Lomond	
				Cerem I ditori				TS1b Epidemiology Forth	'S4a Experience in Stakeholder Engagement Boisdale	TS3b Education and Training Alsh	TS7b RP in Nuclear Medicine Lomond	S8.1 Waste Management Dochart	S12.1 JHPS Fukushima Seminar Clyde	F2.1 Dosimetry and Measurement (ICRU) Forth	S4.2 Teaching RP in Schools Boisdale	TS6c NORM Alsh	TS7c Diagnostic Radiology: QA, Audit, Shielding Lomond	TS11a Protection of the Environment Dochart	TS12a Fukushima I Clyde	S2e Instrumentation and Measurement II Lomond	F3.1 Ethics and Values Dochart	TS6d Non-nuclear Industry, Transport, Security Alsh	TS7e RP in Interventional and Paediatric Radiology Boisdale	TS10c Radon Forth	
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														TS2d In: Measu	TS3cF	KIDS		TS7d Jus Expo	TS9b Acc Mana				n, Poster		
	Lunch, Exhibition, Poster Viewing, Commercial Sponsored Sessions Hall 4			CTR Wison and the cloud chamber Lomond			oition, Po I Sponso Hall 4			Lur	nch and Ha	Exhibit II 4	ion	chools Clyde					ession E)					
TS2a External Dose Assessment Clyde	TS3a Management	and Culture Alsh	TS6a Nuclear Fuel Cycle Forth	TS7a RP in Radiotherapy Lomond	TS8a Waste	Management Docnarc	ISTOa Existing Exposures: NORM and Naturals Boisdale				with Soc yde							Public/ Schools Lecture Clyde	Medical Workshop W7.1 Alsh	IS2g Numerical and Computational Dosimetry Forth	F3.2 Legal Boisdale	KIDS 6 Nuclear Fuel Cycle Clyde	KIDS 7 Medical Lomond	TS9c Lessons Learned & New Threats Dochart	S11.1 Environmental
Coffee Break - Exhibition Hall 4 Poster Session A Hall 4		Hall 4 Hall 4 Poster Session A Poster Session B				IRPA General Assembly Lomond Lomond Technical Visits Medical Workshop W7.2 Alsh		orkshop Nsh		TS2g															
								Medical W W7.2	Coffee Break - Exhibition																
TS1a Radiation Biology Forth	TS2b Internal Dose	Assessment Clyde	S3.1 RP Culture Alsh	TS8b Waste Management II Dochart	S9.1 Medical	Countermeasures Lomona	ISTOB Existing Exposures: Management and Remediation Boisdale	KIDS 1 Underpinning Science Clyde	TS4b Stakeholder Engagement Processes Dochart	F6.2 Role of RP Professionals in Source Security (WINS) Alsh	TS6b Decommissioning Boisdale	F7.1 Role of QE in Hospitals (IOMP) Lomond	TS9a Emergency Preparedness and Response Forth	IRPA C					The System of Protection: Current and Future Developments followed by Key Issues Discussion						

08:00-08:15

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TS12b Fukushima II **Clyde** TS10c Radon Forth

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Session No.	Session Title	Session time	Poster Session				
Area 1.	Area 1. Biological and Health Effects of Ionising Radiation						
TS1a	Radiation Biology	Monday 17:00-18:30	A and B				
TS1b	Epidemiology	Tuesday 9:00-10:30	A and B				
TS1c	Health Effects and Risk Factors	Tuesday 11:00-12:30	A and B				
Area 2.	Measurements and Dosimetry						
TS2a	External Exposure Assessment	Monday 14:00-15:30	A and B				
TS2b	Internal Exposure Assessment	Monday 17:00-18:30	A and B				
TS2c	Biological Dosimetry and Modelling	Tuesday 11:00-12:30	A and B				
TS2d	Instrumentation and Modelling I	Wednesday 11:30-13:00	C and D				
TS2e	Instrumentation and Modelling II	Thursday 9:00-10:30	C and D				
TS2f	Metrology and Dosimetry Standards	Thursday 11:00-12:30	C and D				
TS2g	Numerical and Computational Dosimetry	Thursday 14:15-15:45	C and D				

Session No.	Session Title	Session time	Poster Session
Area 3.	Radiation Protection System Developmen	t and Implementation	
TS3a	RP System: Management and Culture	Monday 14:00-15:30	A and B
TS3b	RP System: Education and Training	Tuesday 9:00-10:30	A and B
TS3c	RP System: Regulation	Wednesday 11:30-13:00	C and D
TS3d	RP System: Evolution and Implementation	Thursday 11:00-12:30	C and D
Area 4.	Stakeholder Engagement and Involvemen	nt	
TS4a	Experience in Stakeholder Engagement and Decision Making	Tuesday 9:00-10:30	A and B
TS4b	Processes, Methodologies and Tools in Stakeholder Engagement	Tuesday 17:00-18:30	A and B
Area 5.	Non-lonising Radiation		
TS5a	Non-ionising Radiation	Tuesday 11:00-12:30	A and B
Area 6.	Planned Exposure Situations: Industry and	d Research	
TS6a	RP Issues in the nuclear fuel cycle	Monday 14:00-15:30	A and B
TS6b	Decommissioning	Tuesday 17:00-18:30	A and B
TS6c	NORM	Wednesday 9:00-10:30	C and D
TS6d	Non-Nuclear Industry, Research,	Thursday 9:00-10:30	C and D
	Transport and Security	<u> </u>	
	Planned Exposure Situations: Medical		
TS7a	Radiation Protection in Radiotherapy	Monday 14:00-15:30	A and B
TS7b	Radiation Safety Issues in Nuclear Medicine	Tuesday 9:00-10:30	A and B
TS7c	QA, Audit & Shielding in Diagnostic Radiology	Wednesday 9:00-10:30	C and D
TS7d	Justification of Medical Exposures	Wednesday 11:30-13:00	C and D
TS7e	Radiation Protection Challenges in Interventional & Paediatric Radiology	Thursday 9:00-10:30	C and D
Area 8.	Waste Management		
TS8a	Waste Management: Policy, Standards and Pre-disposal Management	Monday 14:00-15:30	A and B
TS8b	Waste Management: Public Exposure Assessments and Safety Cases	Monday 17:00-18:30	A and B
Area 9.	Emergency Expsoure Situations		
TS9a	Emergency Preparedness and Response	Tuesday 17:00-18:30	A and B
TS9b	Consequence Management	Wednesday 11:30-13:00	C and D
TS9c	Lessons Learned and New Threats	Thursday 14:15-15:45	C and D
Area 10	D. Existing Exposure Situations		
TS10a	Existing exposure situations due to NORM and natural radiation	Monday 14:00-15:30	A and B
TS10b	Existing exposure situations due to accidental contamination and nuclear legacy	Monday 17:00-18:30	A and B
TS10c	Radon	Thursday 9:00-10:30	C and D
Area 1	1. Protection of the Environment		
TS11a	Protection of the Environment	Wednesday 9:00-10:30	C and D
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Area 1.	2. Fukushima	W-dud	C 12
TC12		Wednesday 9:00-10:30	C and D
TS12a	Fukushima I: Atmospheric Dispersion Fukushima II: Impact and		
TS12a TS12b TS12c		Thursday 9:00-10:30 Thursday 11:00-12:30	C and D

Contents

Welcome from the President of IRPA	2
Welcome from the President of SRP, the host society	3
Welcome from the President of the IRPA13 Congress	4
Committees and Supporters	5
Contributing Organisations / Acknowledgments	11
Rolf M. Sievert Award	
The Gold Medal for Radiation Protection of the Royal	
Swedish Academy of Sciences	14
IRPA Young Professionals Involvement and Prize	15
Scientific Programme	18
Congress theme	19
Programme outline	
Areas and Topics	20
Programme Schedule	21
Sunday 13 May 2012	21
Monday 14 May 2012	22
Tuesday 15 May 2012	31
Wednesday 16 May 2012	41
Thursday 17 May 2012	48
Friday 18 May 2012	58
Poster Sessions and presentations	60
Refresher Courses and Workshops	134
Publication of proceedings	140
IRPA Business programme	140
Congress venue	140
General information	142
Social Programme	149
Technical Exhibition	154













Welcome from the President of IRPA



On behalf of IRPA it is my great pleasure to welcome you all to the 13th International Congress. The primary purpose of this Congress is the exchange of information, ideas and experiences among radiation protection practitioners from all over the world. As you can see, the International Congress Programme

Committee has provided a full schedule for us. The International Congress Organising Committee has arranged for an exciting exhibition and a full social program. For the first time IRPA is recognising the young professionals in our field with special awards for their presentations, a reception and an opportunity to develop a network supported by IRPA. Finally, of course, we use this week to conduct IRPA business and begin to form a program for the next 4 years. I encourage you all to participate fully in the opportunities available to you during the week and enjoy your time in Glasgow.

Kenneth R. Kase

President

Welcome from the President of SRP, the host society



On behalf of The Society for Radiological Protection (SRP) I would like to welcome you to the UK and especially to IRPA13 in Glasgow. The honour and privilege of being the host Society for IRPA13 is matched in scale only by the magnitude of the work involved in making it happen. So I would first like to thank the many

SRP colleagues, those in our UK Partner Societies and others who have worked so hard for several years.

SRP has a Charter from Her Majesty The Queen that assigns us as the UK's learned and professional society for radiological protection. This gives us the responsibility of working for all those who wish to promote the science and art of radiation protection and allied fields for the public benefit. I can think of no better way of us doing this than hosting this Congress.

If you have time to visit our exhibition stand, please do so and meet some of our members. You can even join SRP if you wish! More than anything though, I urge you to make the most of the Congress as radiation protection professionals, and to enjoy this amazing social opportunity.

Chris Englefield CRadP FSRP

President, 2011-2012

Chris Enlepield













Welcome from the President of the IRPA13 Congress



It has been a great pleasure to work with my SRP colleagues on the ICOC Organising Committee and with Ted Lazo and his ICPC Programme Committee to develop this Congress scientific and social programme. We have followed three guiding tenets:

- To bring our Theme Living with Radiation Engaging with Society to life throughout our programme: this culminates in an exciting side programme on Wednesday involving about 1000 school children learning more about radiation, organised by SRP.
- To provide a modern Congress, making use of the latest digital technology to enhance your congress experience: for the first time at an IRPA Congress there is also the live webcast of three sessions, available to our colleagues around the world.
- To provide you with a real flavour of Scotland through our social programme.

I am confident that you will have an enjoyable and stimulating stay in Glasgow, and I look forward to meeting as many of you as possible.

Roger Coates

Roger Coates

IRPA13 Congress President

Committees and Supporters

Hosts – Society for Radiological Protection (SRP)



SRP are very honoured to host the 13th International Congress of the International Radiation Protection Association in May 2012. SRP was founded in 1963 and is the UK Associate Society for the International Radiation Protection Association. With current membership of just over 2000, it is

IRPA's second largest affiliate member. The Journal of Radiological Protection is the official scientific journal of the society, and is published on a quarterly basis.

The Congress is delighted to have the support of the following SRP partner societies:

- The Institute of Physics and Engineering in Medicine (IPEM)
- The Royal College of Radiologists (RCR)
- The British Institute of Radiology (BIR)
- The Society and College of Radiographers (SoCR)
- The British Nuclear Medicine Society (BNMS)
- The Association of University Radiation Protection Officers (AURPO)













Supporting Organisations and Co-Sponsors

The Congress is delighted to have the support of the following supporting organisations and co-sponsors:

- International Commission on Radiological Protection (ICRP)
- International Commission on Radiation Units and Measurement (ICRU)
- OECD Nuclear Energy Agency (NEA)
- European Commission (EC)
- World Health Organisation (WHO)
- Pan American Health Organisation (PAHO)
- International Labour Organisation (ILO)
- International Organisation of Medical Physics (IOMP)
- International Commission on Non-Ionizing Radiation Protection (ICNIRP)
- International Atomic Energy Agency (IAEA)
- United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)
- United Nations Environment Programme (UNEP)

























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- Scottish Environmental Protection Agency (SEPA)
- Department of Energy and Climate Change (DECC)



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Plenary Session Underpinning Science: State of the Art



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Awards

Each IRPA Congress sees the award of prestigious awards for valuable contributions in the field of radiological protection.

Rolf M. Sievert Award

IRPA13 scientific programme will be opened by the Sievert Lecture, presented to the winner of the 2012 Sievert award, Richard Osborne, by the IRPA Executive. This award is granted in honour of Rolf M Sievert, a pioneer in radiation physics and radiation protection.

Previous recipients of the Sievert award are: Professor Bo Lindell, Prof. W.V. Mayneord, Dr. Lauriston. S. Taylor, Sir Edward Pochin, Prof. Dr. Wolfgang Jacobi, Dr. Giovanni Silini, Dr. Daniel Beninson, Prof. Dr. Itsuzo Shigematsu, Dr. Abel J. Gonzalez and Prof. Christian Streffer

Richard V Osborne to receive the 2012 Sievert Award and present his lecture "A Story of Tritium".



Richard V Osborne was born and educated in the UK, graduating from Cambridge and London Universities. He emigrated to Canada in 1963 where he joined AECL at Chalk River, where he spent the next 35 vears working in the field of health & environmental sciences, where he became Divisional Director and directed the AECL

research programs in radiation biology, health physics and environmental research.

He is now President of Ranasara Consultants Inc., working in the general area of radiological protection. He founded and was first President of the Canadian Radiation Protection Association in 1979. He was Vice-President of the International Radiation Protection Association from 1992–1996. He served on Committee 4 of the International Commission on Radiological Protection and he chaired the ICRP Task Group on Radon in Buildings. He also chaired the ICRP Working Party on controllable dose.













The Gold Medal for Radiation Protection of the Royal Swedish Academy of Sciences

This medal was established in 1962 to be awarded to persons who have made a highly valuable contribution to international radiation protection progress during the preceding ten years. Recipients are nominated by the International Commission on Radiological Protection (ICRP) and chosen by the Academy. Previous recipients include: W. Binks, K. Z. Morgan, W. V. Maynard, L. S. Taylor, E. E. Pochin, S. Takahashi, B. Lindell, I. Shigematsu, A. Guskova, R. Doll and K. Sankaranarayanan. The 2012 Gold Medal is awarded to Keith F Eckerman.

Dr. Keith Eckerman

Dr. Keith Eckerman was educated at the University of Wisconsin-Platteville, Oak Ridge Associated Universities and Northwestern University, and while in Oak Ridge he became interested in health physics as a career choice. After periods working at Argonne National Laboratory (ANL) and with the U.S. Nuclear Regulatory Commission in Washington, DC, in 1979 he became group leader of the Dosimetry Research Group at Oak Ridge National Laboratory (ORNL), where he has been for past three decades.

Dr. Eckerman's interest in the dosimetry of internal emitters began in 1970 when he was involved in the studies of radium dial painters. He has been an active member of Committee 2 of ICRP since 1984 and has chaired the ICRP Task Group on Dose Calculations from 1984 to 2007.

IRPA Young Professionals Involvement and Prize

The Congress issues a special invitation and encouragement to younger scientists and professionals to attend as delegates. Whilst there is no formal definition of 'young' in this context, it is intended to apply to students and persons in the first ten years of their career in radiation protection, and as such they will only exceed the mid-30s age in exceptional circumstances.

The Congress offers a prize for the best presentation by a Young Professional or Scientist. To be eligible for entry, the candidate must be selected and nominated by his/her relevant IRPA Associate Society. The selected candidate from each Society has been allocated an oral presentation of their paper at the Congress. The Young Person Awards are: First Prize £1000, Second Prize £500 and Third Prize £250.

The Congress is encouraging networking amongst these young persons by holding a specific reception for them, allowing them also to meet some of the senior figures in the profession.



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IRPA13 Young Professionals Prize Entries

Society	Candidate	Technical Session
Austria	Andreas Baumgartner	TS 2f
Belgium	Tom Clarijs	TS 7c
Croatia	Dr. Branko Petrinec	TS 8b
Czech Republic	Miroslav Hyza	TS 12a
France	Jad Farah	TS 2g
German-Swiss	Olaf Marzocchi	TS 2d
Hungary	Balázs Gergely Madas	TS 1a
Italy	Ms Alessandra Pistelli	TS 1b
Japan	Kotaro Tani	TS 2b
Netherlands	Heleen van Elsäcker- Degenaar	TS 3d
Nordic	Paula Toroi	TS 2a
Philippines	Ms Maria Kristina Maano	TS 7e
Russian Federation	Nataly Shagina	TS 2b
South Africa	Muhammad Akbar	TS 2a
South Korea	Jang Han Ki	TS 6d
Spain	Ms. Alegría Montoro	TS 2c
UK	Izzy Styles	TS 2a
USA	Anne Adamczyk	TS 10a

Paper

Radiation protection of patients: status of primary standard dosimetry of high energy photon and electron beams in Austria

Implementation of acceptability criteria for medical radiological equipment in Belgium

¹³⁷Cs Inventory in South Adriatic

Monitoring of Radionuclides in the Air in the Czech Republic After the Fukushima NPP Accident

Library of Mesh and NURBS Female Phantoms for Pulmonary in Vivo Body Counting Studies

Design and Setup of a New HPGe Detector **Based Body Counter Capable of Detecting** Also Low Energy Photon Emitters

Possible Consequences of Inhomogeneous Suborgan Distribution of Dose and the Linear No-Threshold Dose-Effect Relationship

Study on the prevalence of thyroid disease in healthcare workers at University hospital of Pisa in relation with occupational exposure to ionizing radiation

Estimation of Radionuclide Biokinetics Dependence on Intake Conditions for Internal Exposure

Enetrap II: WP5, Develop And Apply Mechanisms For The Evaluation Of Training Events

Interpretation of Measured Dose Data in X-ray Imaging

Estimation of Occupational Radiation Dose Levels of Interventional Cardiologists at the Philippine Heart Center

Evaluation of In Utero Doses from Maternal Ingestion of Strontium Radionuclides at the Techa River

Modelling and Comparison of Hot Cell Shielding Capabilities during a Criticality Excursion

Probabilistic Radiological Risk Assessments for Radiation Facilities with Vague Information

Assessment of Frequency of Dicentrics of Ukrainian Children from Parents Exposed to Radiation Fall-out After the Chernobyl Accident

Skin dose assessments using Varskin 3

Comparisons of Carrington-Class Solar Particle Event Radiation Exposure Estimates on Mars utilizing the CAM, CAF, MAX, and FAX Human Body Models













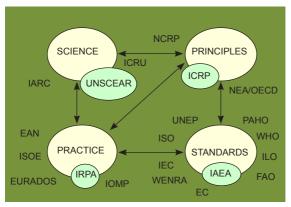
Scientific Programme

Overview by Ted Lazo, Chair, International Congress Programme Committee

This is an exciting time in the world of radiation protection. So much is moving forward in the underpinning science. There is great progress in the medical uses of radiation, although with some concerns over the very significant increases in total exposure. The nuclear resurgence is poised to deliver even more CO_2 -free energy, although not all stakeholders are comfortable with this. More and more uses are being found for radioactive sources, all of which however must be kept safe and secure. Exposure to natural radiation, especially radon and NORM, is a matter of constant attention.

All these issues are covered in our congress programme, where we also give special emphasis to our Theme: Living with Radiation – Engaging with Society.

The programme is based around the four Pillars of Radiation Protection as in the diagram below. This system is somewhat cyclic in nature, with all of these steps being interrelated and influencing each other.



We have given emphasis to review and discussion within the formal proceedings so that we can move towards a Congress output which clarifies state-of-the-art knowledge, current direction and emerging challenges in all of these areas and in all aspects of radiation protection. These considerations will be distilled into a Congress output which after the Congress will be posted on the IRPA13 website for consultation prior to publication in the scientific literature.

Congress Theme: Living with Radiation — Engaging with Society

The theme that has been selected for the IRPA13 Congress is both interesting and challenging. It reminds us that while exposure to radiation may be either voluntary or involuntary, the management of protection will always involve social decisions and choices. To make such decisions and choices requires knowledge and wisdom, and the objective of this Congress is to increase both of these in order to help members of the radiation protection profession better address their responsibilities.

Public perception and understanding of radiation risks are often at distinct variance from the views of scientific experts. It is increasingly apparent that for many ventures involving radiation it can be impossible to move forward successfully without a structured and meaningful engagement with stakeholders, especially local communities. The Congress will therefore provide opportunities for radiation protection professionals to share experiences amongst ourselves, but also to experience and interchange views with those outside our profession - i.e. those who are often called our stakeholders.

Programme Outline

The scientific programme content is arranged in 12 Topic Areas identified below. Our aim has been to ensure that there is always something happening of relevance to your own personal interests. Several different types of sessions have been included as follows:

- Plenary Sessions: These sessions by the world's leading scientists and practitioners in their fields will present overviews of the current state of key topics in radiation protection.
- Key Issue Discussion Sessions: These will explore the current key issues in specific topics through expert discussion, and will help us move towards the principal conclusions from the congress.
- Technical Sessions and Poster Sessions: All the submitted papers and posters will be presented within these sessions
- **Symposia:** Selected topics of current significance are addressed through specific sessions with invited speakers and wider discussions.
- Fora: Key current aspects of the work of our sister international organizations will be explored in these sessions.
- Refresher Courses and Workshops: Each day will begin with a series of Refresher Courses which offer training and updating opportunities to delegates. A limited number of hands-on training workshops are also provided.













Sponsored Commercial Presentations: These
presentations give opportunities for delegates to be
made aware of the products, services and capabilities of
commercial companies and organizations.

Areas and Topics

The 12 Areas and associated sub Topics broadly follow the ICRP structure of Planned, Existing and Emergency Exposure Situations, although we have also responded to circumstances by adding a specific Area covering all aspects of the Fukushima accident. Exposure of workers, the public and patients are all included under the relevant topic heading. Given the Congress theme of Living with Radiation – Engaging with Society, specific experiences relating to a given topic area are presented in that topic session, with generic issues relating to society and stakeholder engagement being focused in Area 4.

- 1. Biological and Health Effects of Ionising Radiation
- 2. Measurements and Dosimetry
- 3. Radiation Protection System Development and Implementation
- 4. Stakeholder Engagement and Involvement
- 5. Non-Ionising Radiation
- 6. Planned Exposure Situations: Industry and Research
- 7. Planned Exposure Situations: Medicine
- 8. Planned Exposure Situations: Radioactive Waste Management
- 9. Emergency Exposure Situations
- 10. Existing Exposure Situations
- 11. Protection of the Environment
- 12. Fukushima

Programme Schedule

Sunday 13 May 2012

IRPA Associate Societies Forum













Monday 14 May 2012

Opening Ceremony

Type: Plenary Session

Date: Monday, May 14, 2012

Time: 09:00 - 10:00

Room: Clyde Auditorium

Kenneth Kase IRPA President

Douglas Boyd Lord Dean of Guild

Michael Matheson MSP Scottish Minister for Public Health

Chris Englefield SRP President

Roger Coates IRPA13 Congress President

Ted Lazo Scientific Programme Chairman

Sievert Lecture: A Story of Tritium

Type: Plenary Sessior

Date: Monday, May 14, 2012

Time: 10:00 - 11:00

Room: Clyde Auditorium

Speaker: Richard Osborne

Underpining Science: State of the Art

Type: Plenary Session

Date: Monday, May 14, 2012

Room: Clyde Auditorium
Chair: John Cooper

Rapporteur: Richard Wakeford

11:30 Overview of Low Dose/Dose-Rate Cancer Epidemiology. Roy Shore

11:50 Non-Cancer Effects, Especially PL2.2

Circulatory Diseases. Mark Little

12:10 Update on Radiobiological Mechanisms PL2.3

at Low dose/dose-rates. Mike Atkinson

12:30 Health Effects of EMF – Scientific PL2.4

Update. Paolo Vecchia

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TS2a	: External Dose Assessment	
Type:	Technical Session	
Date:	Monday, May 14, 2012	
Time:	14:00 - 15:30	
Room:	Clyde Auditorium	
Chair:		
Rappor	teur: Alexander Brandl	
14:00	Characterization of the Neutron Fields Around Cernavoda NPP. V Cauwels	TS2a.1
14:10	Radiation Dose to Interventional Radiology Staff – Can It Be Assessed by Only One Radiation Badge: Trunk, Head or Finger? S Kettner	TS2a.2
14:20	Guidelines to Optimize Extremity Monitoring and to Reduce Skin Doses in Nuclear Medicine. Results of the ORAMED Project. M Ginjaume	TS2a.3
14:30	An Assessment of Eye Doses in the UK, Ireland, USA and France. C Perks	TS2a.4
14:40	The Status of Criticality Accident Dosimetry in the UK. C Wilson	TS2a.5
15:00	Skin Dose Assessments Using Varskin. 3 I Styles	TS2a.7
15:10	Modelling and Comparison of Hot Cell Shielding Capabilities during a Criticality Excursion. M Akbar	TS2a.8
15:20	Interpretation of Measured Dose Data in X-ray Imaging, P Toroi	TS2a.9

T53a	: RP :	System: Management and I	Culture
Type:		Technical Session	
Date:		Monday, May 14, 2012	
Time:		14:00 - 15:30	
Room:		Alsh	
Chair:		Annemarie Schmitt-Hannig	
Rappor	teur:	Bernard Le Guen	
14:00	and D	ars of ALARA Management, Research evelopment at the Belgian Nuclear rch Centre SCK•CEN. F Hardeman	TS3a.1
14:15		ritical Examination of Radiological ations. A Brennan	TS3a.2
14:30		opment and Dissemination ARA Culture. F Vermeersch	TS3a.3













		······•
14:45	Development and Implementation of	TS3a.4
	·	
	USNRC's Safety Culture Policy Statement	
	for Radioactive Materials. J Piccone	
15:00	Improving the Radiation Protection	TS3a.5
	Safety Culture in the UK. R Hallard	
•••••	Salety Culture III the OK. K Hallard	
15:15	Conditions and Means of Developing	TS3a.6
	a Radiation Protection Practical	
	Culture within the Population in Post-	
	Accident Situations. F Gallay	

TS6a: RP Issues in the Nuclear Fuel Cycle		
Type: Date: Time: Room: Chair: Rappo	Technical Session Monday, May 14, 2012 14:00 - 15:30 Forth Jong Kyung Kim rteur: Ralph Andersen	
14:00	Updating the UNSCEAR Methodology for Estimating Human Exposures due to Radioactive Discharges. C Robinson	TS6a.1
14:15	Radiation Protection Aspects of Water Chemistry and Source-Term Management with a view of an ISOE Expert Group. A Rocher	TS6a.2
14:30	An Update on the UK Generic Design Process for Potential Nuclear New Build Reactors - the AREVA EPR and the Westinghouse AP1000. K Allars	TS6a.3
14:45	Radiological Protection Aspects of the Generic Design Assessment of Potential New Nuclear Reactors in the UK. G Ingham	TS6a.4
15:00	The Evaluation of the Radiological Impact for a New Nuclear Facility on a Multi-facility Site. H Seals	TS6a.5
15:15	Assessment Of The Impact On The Irish Public Arising From Liquid Discharges From Potential New Build Power Plants In The United Kingdom. K Kelleher	TS6a.6
15:30	Industrial Radiography at Nuclear Power Plants. B Ekstrom	TS6a.7

TS7a: Radiation Protection Issues in Radiotherapy

Monday, May 14, 2012

14:00 Radiation Protection Issues in TS7a.1 Proton Therapy. A Lomax 14:20 IAEA Quality Audits in TS7a.2 Radiotherapy. G Azangwe 14:35 Peripheral Doses in Children Undergoing TS7a.3 Gamma Knife Radiosurgery. S Miljanic 14:50 Comparison of Primary Doses Obtained TS7a.4

in Three 6 MV Photon Beams Using a Small Attenuator. C Trauernicht

15:05 Multi-institutional Study for IMRT Dose TS7a.5 Quality Assurance in Korea. S-J Ye TS7a.6

15:20 Treatment Errors and Near-Misses in a Radiotherapy Department. M Hosseini-Ashrafi

TS8a: Waste Management: Policy, Standards and Pre-disposal Management

14:00 ICRP Recommendations on Radiological TS8a.1 Protection in Geological Disposal of Longlived Solid Radioactive Waste. W Weiss 14:30 Radiological Assessments in Support TS8a.3 of the UK Review of Exemption Orders for Radioactive Waste. K Jones Comparison of Provisions for Exclusion 14:45 TS8a.4 and Exemption of NORM Radionuclides Associated with the Oil and Gas Industry in the North Sea. A Stackhouse 15:00 Optimization of Management of Liquid TS8a.5 Radioactive Waste Generated in Research and Education Centers. F Usera













TS10a: Existing exposure situations due to NORM and natural radiation

Type:	Technical Session	
Date:	Monday, May 14, 2012	
Time:	14:00 - 15:30	
Room:	Boisdale	
Chair:	Peter Waggitt	
Rappor	teur: Astrid Liland	
14:00	Management of Operational and Existing Exposure Situations due to NORM and Natural Radiation: Radiation Protection and Scientific Challenges. R O'Brien	TS10a.1
14:20	Comparisons of Carrington-Class Solar Particle Event Radiation Exposure Estimates on Mars utilizing the CAM, CAF, MAX, and FAX Human Body Models. A Adamczyk	TS10a.2
14:35	Exposure Caused By Natural Radionuclides in Building Materials: Current Practice and Regulation and Future Radiation Protection Requirements. F Maringer	TS10a.3
14:50	Distribution pattern of NORM on Red Sea Shore Sediments in Relation to Non-Nuclear Industries. A Khater	TS10a.4
15:05	Rapid Method for Determination of Po isotopes in Biological Matter. M Sinojmeri	TS10a.5
15:20	Necessity of World Wide Regulation for Radioactive Consumer Products in Current Markets. E Furuta	TS10a.6

TS1a: Radiation Biology				
Type:		Technical Session		
Date:		Monday, May 14, 2012		
Time:		17:00 - 18:30		
Room:		Forth		
Chair:		Mike Atkinson		
Rappo	rteur:	Carmel Mothersill		
17:00		nmatory Response in Radiation red Late Effects. M Portas	TS1a.1	
17:15	Instak	of Late Radiation-induced Genomic oility in Persons Chronically sed to Radiation. G Veremeyeva	TS1a.2	
17:30	Antio	Administration of Multiple xidants Reduced Damage in Lethally na-Irradiated Animals. K Prasad	TS1a.3	

17:45	Global Gene Expression Responses to Low- or High-dose-rate Radiation in the Thymus of ICR and AKR/J mice. J Bong	TS1a.4
18:00	Informativity of Regulatory Proteins at Estimation of Radiation-Induced Changes of Immune Homeostasis in Nuclear Workers. EN Kirillova	TS1a.5
18:15	Possible Consequences of Inhomogeneous Suborgan Distribution of Dose and the Linear No-Threshold Dose- Effect Relationship. B Madas	TS1a.6

TS2b	: Internal Dose Assessment	
Type:	Technical Session	
Date:	Monday, May 14, 2012	
Time:	17:00 - 18:30	
Room:	Clyde Auditorium	
Chair:	Elizabeth Brackett	
Rappor	teur: George Etherington	
17:00	Routine Internal Dosimetry Monitoring And Assessment: The Practical Application Of International Standards And Guidance. G Roberts	TS2b.1
17:10	Evaluation of In Utero Doses from Maternal Ingestion of Strontium Radionuclides at the Techa River. N Shagina	TS2b.2
17:20	A Probabilistic Approach for the Assessment of Internal Dose to Chronic Lymphocytic Luekemia Precurson Cell. J Neton	TS2b.3
17:30	Individual Monitoring of Internal Exposures for Argentina Nuclear Medicine Workers. A Rojo	TS2b.4
17:40	Development of mobile laboratories for Routine and Large Accident Monitoring of Internal Contamination. D Franck	TS2b.5
17:50	Modeling of DTPA Decorporation Therapy Still Puzzling After All These Years. B Breustedt	TS2b.6
18:00	Evaluation of the amount of ²¹⁰ Po Ingested by the Spanish Population and its Relation to their Diet Habits. R Garcia-Tenorio	TS2b.7
18:10	Estimation of Radionuclide Biokinetics Dependence on Intake Conditions for Internal Exposure. K Tani	TS2b.8
18:20	Impact of ICRP-89 Based Models on Dose Estimates for Radiopharmeceuticals and CT Exams. M Stabin	TS2b.9













53.1 RP Culture

Type: Symposium

Date: Monday, May 14, 2012 Time: 17:00 - 18:30

Room: Alsh Ken Kase Chair:

Rapporteur: Bernard Le Guen

17:00 Introduction to IRPA Guiding S3.1.1

Principles on RP Culture. B Le Guen

17:15 S3.1.2 WG1: Elements of Traits and Elements

for Definition of RP Culture. K Kase

17:30 WG2: Criteria for Success. S King S3.1.3 17:45 WG4: Assessment Tools, M Cantone S3.1.4

WG3: Engage Stakeholders and S3.1.5 18:00

Role of RP professionals and IRPA

Associate Societies, B Lorenz

TS8b: Waste Management: Public Exposure Assessments and Safety Cases

17:00 The Importance and Uncertainties of TS8b.1 Parameters Related to the Radiological

> Analysis of NORM for use in Public Dose Assessments. D De Villiers

Doses to Public Arising From the Use of TS8b.2 17:15

> Radioisotopes in Radionuclide Laboratories and Hospitals in Finland. S Hellsten

Radiological Protection Challenges TS8b.3 17:30

of Retrieval of Legacy Intermediate Level Wastes (ILW) at the Solid Waste Plant B462 RSRL Harwell, A Carev

Disposal Activities Within The IAEA 17:45 TS8b.4

Division Of Radiation, Transport And Waste Safety, G Bruno

Radiological Impact Assessment TS8b.5 18:00 in the LLWR's 2011 Environmental

¹³⁷Cs Inventory in South Adriatic. B Petrinec 18:15

Safety Case, R Cummings

TS8b.6

59.1 Research on Medical Countermeasures against Serious Radiation Exposure

Monday, May 14, 2012 Room: Lomond Auditorium Ray Guilmette Michel Bourguignon 17:00 Current Thinking on the Early S9.1.1 Effects from Uniform and Non-Uniform Radiation, J Williams Early Effects from Internal Radiation: 17:20 \$9.1.2 State-of-knowledge and Need for an Improved Assessment. F Menetrier MCM for external radiation -S9.1.3 17:35 Drug Therapy. T MacVittie Stem Cell Therapy As Medical S9.1.4 17:50 Countermeasures For External

TS10b - Existing exposure situations due to accidental contamination and nuclear legacy - long term management and remediation

Radiation Burns, J Lataillade Medical Countermeasures for

Treating Internal Deposits of Radionuclides. R Guilmette

Type: **Technical Session** Date: Monday, May 14, 2012

Time: 17:00 - 18:30 Room: Boisdale

18:10

Co-Chair: Natalya Shandala Co-Chair: Thierry Schneider

Astrid Liland Rapporteur: 17:00 A Quarter of a Century with Chernobyl TS10b.1 Contamination - Norwegian Experiences. L Skuterud

Body Monitoring Results. P Croüail 17:30 Guidance on the Assessment of TS10b.7 **Exposure from Land Contaminated** with Heterogeneously Distributed

CORPORE, A Tool for Interpreting Whole



17:15





Radioactive Material. W Oatway







TS10b.3

S9.1.5

17:45	Optimising Decision Making For Late-Phase Recovery From Nuclear Or Radiological Terrorism Incidents In The US. A Nisbet	TS10b.4
18:00	Key Radiation Protection Issues In Regulatory Supervision Of Nuclear Legacies. M Sneve	TS10b.2
18:15	Regulatory Supervision and Assessment of the Radiation Situation in the Areas of the Former Military Technical Bases. A Shandala	TS10b.5
18:30	Challenges in The Nuclear Legacy Regulation. M Kiselev	TS10b.6
18:45	Radiological Characterisation and Decommissioning in the UK Non-nuclear Industry: Project Experience, Challenges and Solutions. S McLauchlan	TS10b.8

Tuesday 15 May 2012

512.1 Japan HPS: Fukushima Issues 09:00 Overview. T Kosako S12.1.1 09:15 Environmental and Personal S12.1.2 Monitoring. T Momose 09:40 **Public Concern Regarding** S12.1.3 Fukushima Accident - Challenge to RP Community. K Sakai

Points at Issue on Radiation Protection

following Fukushima Accident, T Hattori

TS1b:	Epidemiology	
Type:	Technical Session	
Date:	Tuesday, May 15, 2012	
Time:	09:00 - 10:30	
Room:	Forth	
Chair:	Dominique Laurier	
Rappor	teur: Richard Wakeford	
09:00	Risk of Lung Cancer Death Associated to Radon Exposure Corrected for Measurement Error Among Uranium Miners. D Laurier	TS1b.1
09:15	Cardiovascular and Cerebrovascular Diseases in the Extended Cohort of MAYAK Nuclear Workers. T Azizova	TS1b.2
09:30	Livelong Accumulated Radiation Exposure Dose from Medical Radiography and Nuclear Medicine in a Population Representative Sample. H von Boetticher	TS1b.3
09:45	Risk of Radiation-Induced Cataract for Interventional Cardiologists: Results of the O'CLOC Study. S Jacob	TS1b.4
10:00	Study on the Prevalence of Thyroid Disease in Healthcare Workers at the Hospital of Pisa in Relation with Occupational Exposure to Ionizing Radiation. A Pistelli	TS1b.5



09:55











S12.1.4

TS4a: Experience in Stakeholder Engagement and Decision Making

Type: **Technical Session** Date: Tuesday, May 15, 2012

09:00 - 10:30 Time: Room: Boisdale Chair: Eduardo Gallego

Rapporteur: Rick Jones

09:00 Stakeholder Engagement: The TS4a.1 UK Experience. T Bandle 09:15 Early Stakeholder Involvement TS4a.3

in Environmental Rulemaking for Uranium. M Boyd

Activities of the Moroccan Association 09:30 TS4a.4 of Radiation Protection as one

> African Experience in the Field of Associative Work, A Chourkri

09:45 Fukushima Facts: Science, Journalism and TS4a.5 the Way Events are Perceived. A Margetic

TS7b: Radiation Safety Issues in Nuclear Medicine

Tuesday, May 15, 2012

Chair:	Madan Kehani	
Rappor	teur: Cornelius Lewis	
09:00	Challenges in Nuclear Medicine Radiation Dosimetry. S Mattsson	TS7b.1
09:25	Impact of the New Reconstruction Algorithm trueX at Siemens PET/ CT-scanners . J Neuwrith	TS7b.2
09:40	lodine 131 Treatment for Patients on Hemodialysis: Radiation Safety Considerations. M Chretien	TS7b.3
09:55	Personalised Dosimetry in 90y-Microspheres Therapy of Liver Cancer Using the Oedipe Software and SPECT/CT Images. A Petitguillaume	TS7b.4
10:10	Optimization of a Routine Method for Bone Marrow Estimation in 177Lu-EDTMP	TS7b.5

Therapy- Experience in Uruguay. M Teran 10:25 Organ Dose Reconstruction for Hyperthyroid TS7b.6 Patients Treated with 131 I. D Melo

58.1 Stakeholder Engagement in Waste Management

Type:

09:00 CoRWM 2003-2006. B Clark S8.1.1

09:10 COWAM and French experience. T Schneider S8.1.2 09:20 UK Local Government experience. F Barker S8 1.3

SKB Experience, A McCall S8.1.4 09:30

TS3b: RP System: Education and Training

Technical Session Type:

Alsh

Date: Tuesday, May 15, 2012

Time: 09:00 - 10:30

Room:

Chair: Paul Livolsi Vivra Nilsson Rapporteur:

IAEA's Education and Training Programme TS3b.1

for Strengthening Radiation Protection

in Member States. J Wheatley Accreditation of Health Physics Academic 09:15 TS3b.2

Programs in the U.S. J Harris The Development And Implementation TS3b.3 09:30 Of A System To Accredit Ionising Radiation

Enetrap II: WP5 TS3b.4 09:45 Develop And Apply Mechanisms For

The Evaluation Of Training Providers. IH van Elsäcker-Degenaar

Instrumentation Specialists. J McClure

10:00 Delivering a Radiation Protection Dividend: TS3b.5

Systemic Capacity-Building for the Radiation Safety Profession in Africa. J Hilton

Radiation And Radiological Protection. 10:15 TS3b.6

Guidelines For Primary And Secondary

Schools. D Rueda Guerrero













TS5a	: Non-ionising Radiation	
Type:	Technical Session	
Date:		
Room:	Dochart	
	Alastair McKinlay	
Rappor	teur: John O'Hagan	
11:00	The Urgent Need to Apply the ICRP Criteria to Non Ionizing Radiation. R Touzet	TS5a.1
11:15	Implantable Cardioverter Defibrillator and 50 Hz Magnetic Field Exposure in the Workplace. J Lambrozo	TS5a.2
11:30	Paradigm Change for Optical Radiation – Temporary Blinding from Optical Radiation as Part of the Risk Assessment. H Reidenbach	TS5a.3
11:45	Laser and LED Retina Hazard Assessment with an eye Simulator. A Amitzi	TS5a.4
12:00	Measurements of the Magnitude and Direction of the Electric Field of a Mobile	TS5a.5

Phone in the Near Field. A Pantinakis

TS1c: Human Health Effects and Risk Factors				
Type:	Technical Session			
Date:	Tuesday, May 15, 2012			
Time:	11:00 - 12:30			
Room:	: Clyde Auditorium			
Chair:	Roy Shore			
Rappoi	rteur: Richard Wakeford			
11:00	Radon Risk in Uranium Mining and ICRP. DB Chambers	TS1c.1		
11:15	11:15 A Risk Assessment of the Potential TS1c.2 Impacts of Radon, Terrestrial Gamma and Cosmic Rays on Childhood Leukaemia in France. D Laurier			
11:30	A New Look At Ionizing Radiation Carcinogenesis. O Raabe	TS1c.3		
11:45	Genetic Hypersensitivity to Ionizing Radiation in Imaging and Treatment. E Salminen	TS1c.4		

12:00	Dynamics of Hematopoiesis in Residents of Techa Riverside Villages Chronically Exposed to Ionizing Radiation: Clinical and Model. OA Smirnova	TS1c.5
12:15	High Congenital Malformations Rates in a Chernobyl Ionizing Radiation Impacted Population Isolate in Ukraine and Call for Research Co-Investigators. W Wertelecki	TS1c.6

T52c	: Biological Dosimetry and Mode	elling
Туре:	Technical Session	
Date:	Tuesday, May 15, 2012	
Time:	11:00 - 12:30	
Room:		
Chair:		
Rappor	teur: TBC	
11:00	Structural Genomic Damages In Plutonium Workers. TV Azizova	TS2c.1
11:15	Performance of the Dicentric Assay in a Recent NATO Exercise of Established and Emerging Biodosimetry Methods. C Beinke	TS2c.2
11:30	The Dicentric Assay in Triage Mode as Reliable Biodosimetric Scoring Strategy for Population Triage in Large Scale Radiation Accidents. H Romm	TS2c.3
11:45	Contribution of the Biological Dosimetry for Treatment Decisions in Patients with Differentiated Thyroid Carcinoma (DTC) under Radioiodine-131 Therapy. A Fadel	TS2c.4
12:00	Retrospective Dosimetry on Human Nails using X-band EPR Spectrometry. E Lund	TS2c.5
12:15	Assessment of Frequency of Dicentrics of Ukrainian Children from Parents Exposed to Radiation Fall-out After the Chernobyl Accident. N Sebastia	TS2c.6
12:30	FISH Translocation Practice as a Retrospective Biodosimeter: a Review. E Gregoire	TS2c.7













S4.1 Affected People's Symposium					
Type:		Symposium			
Date:		Tuesday, May 15, 2012			
Time:		11:00 - 12:30			
Room:		Boisdale			
Chair:		Astrid Liland			
Rappo	rteur:	Rick Jones			
11:00	Norw	egian Sami Prespective. I Aahren	S4.1.1		
11:30	The C	hernobyl Accident:	S4.1.3		
		rstanding Its Wider Impact on			
	the Pe	eople of Belarus. V Piotukj			

S4.1.5

Past Experiences and Lessons

Learned Under the Rongelap Resettlement Program. T Hamilton

12:15

F6.1 Worker Education and Training (IAEA/ILO/NEA)				
Type:	Forum			
Date:	Tuesday, May 15, 2012			
Time:	11:00 - 12:30			
Room:	Forth			
Chair:	Richard Paynter			
Rappo	rteur: John Croft			
11:00	Why is RP training and education so important? S Niu	F6.1.1		
11:10	Who has which responsibility? J Wheatley	F6.1.2		
11:20	An example (NPP's: Dose trends, usual practice, effective tools). H Willis	F6.1.3		
11:30	Effectiveness of International Professional Organizations (eg IRPA). E Gallego	F6.1.4		
11:45				

David Shier, John Wheatley, H Willis

F7.2 Global Health Care Perspectives (IAEA/WHO/PAHO)

Type:

11:00 New radiation health technologies: F7.2.1 challenges, opportunities and

limitations. F Nüsslin

Optimization in therapeutic applications - the F7.2.2 11:20 challenges, opportunities and limitations of new/emerging radiation technology. M Brada

11:40 Challenges, opportunities and F7.2.3 limitations to improve justification

12:00 Promoting/improving safety culture in the medical sector. S Ebdon Jackson

of medical imaging. L Lau

The Life and Work of CTR Wilson - the Scottish Inventor of the Cloud Chamber "From radiation tracks to the Nobel Prize"

Type: Lunchtime Lecture Date: Tuesday, May 15, 2012

Time: 13:00-13:45

Room: Lomond Auditorium

Presenter: Jim Jamieson

Engaging with Society

Plenary Session Type:

Date: Tuesday, May 15, 2012

Time: 14:00 - 15:30 Clyde Auditorium Room:

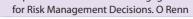
Chair: Jacques Lochard

Rapporteur: Anne Nisbet

Social Science and Risk 14:00 PI 3.1 Communication, V Covello Rebuilding Trust in the Science of PL3.2 15:00

Radiation Protection, H Grogan 15:15 Risk Communication with the Public PL3.3

at Fukushima Dai-ichi. O Haruyuki 15:30 Experiences in Stakeholder Engagement PI 3.4















F7.2.4

KIDS 1 RP Science

Date: Tuesday, May 15, 2012

Room: Chair: Richard Wakeford

Barcellos-Hoff, Dominique Laurier,

Mark Little, Wolfgang Weiss

Panel Statements 17:00

17:30 Panel Discussion and Ouestions

TS4b: Processes, Methodologies and Tools in Stakeholder Engagement

Technical Session Type: Date: Tuesday, May 15, 2012

Time: 17:00 - 18:30 Dochart Room: Chair: TRC Rick Jones Rapporteur:

17:00 Public Participation in Decision Making TS4b.1 on Nuclear Installations, C Turcanu

Comparison Between Two Local-17:15 TS4b.2 National Forums for Emergency and

Recovery Strategies. I Eikelmann

TS4b.3 17:30 Maximizing Public Engagement in Radiological Monitoring as a Means of Furthering Public Understanding of Ionizing Radiation. W Hartwell

17:45 Stakeholder-Managed Independent TS4b.4 Review: A Local Committee's Initiative to Assess the Radiological Impact of the Soulaines LILW

> Disposal Facility. P Dallemagne Moral Emotions and Risky Technologies:

TS4b.5

TS4b.6

18:00 Including Moral Emotions in Risk Communication and Political Decision Making, S Kaliarnta

18:15 Tools and Techniques for Effective Message Mapping and Radiological Risk

Communications with the Public During Radiological Emergencies. P Milligan

F6.2 The Role of Radiation Protection Professionals in the Security of Radioactive Sources (WINS)

Rapporteur: Bernard Weiss

17:05 The Role of the Radiation Protection F6.2.1 Professional. C Leijen

17:20 Education and Training, C Englefield

17:35 The Role of Professional Societies. E Valdezco F6.2.3 F6.2.4 17:50 International Programmes, I Iliopoulos

TS6b: Decommissioning

Technical Session Type:

Tuesday, May 15, 2012

17:00 Radiation Protection during Ts6b.1 Decommissioning of Nuclear Facilities -

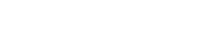
Experiences and Challenges. J Kaulard

17:20 Radiological Protection During the TS6b.2 Dismantling of Nuclear Facilities. T Ortiz

17:35 Harwell's Liquid Effluent Treatment Plant: TS6b.3 Past, Present and Future Challenges in Radiation Protection. G Gallacher

17:50 Pharmaceutical-Producing Cyclotron TS6b.4 Characterization, Removal, and

Disposition. E Gillenwalters Final Radiological Release of the TS6b.5 18:05 Radiochemical Laboratory at the Joint



Research Centre in Ispra. D Giuffrida













F6.2.2

F7.1 Role of MPE in Hospitals (IOMP)			
Type:	Forum		
Date:	Tuesday, May 15, 2012		
Time:	17:00 - 18:30		
Room:	Lomond Auditorium		
Chair:	Fridtjof Nüsslin		
Rappoi	rteur: Madan Rehani		
17:00	The Role of MPE/QE/RPO – The View of the IOMP. F Nüsslin	F7.1.1	
17:10	European perspective. C Hardiman	F7.1.2	
17:20	The IAEA Inter-Regional Project on Harmonization of Medical Physicist Roles and Responsibilities in Radiation Medicine. A Meghzifene	F7.1.3	
17:30	Asian Perspective. A Peralta	F7.1.4	
17:40	Latin American perspective. S Kodlulovich Dias	F7.1.5	
17:50	The Role of MPE/QE/RPO in Hospitals – The African Perspective. R Nakatudde	F7.1.6	

TS9a: Emergency Preparedness and Response				
Type:	Technical Session			
Date:	Tuesday, May 15, 2012			
Time:	17:00 - 18:30			
Room:	Forth			
Chair:	Pedro Carboneras			
Rappoi	teur: Manuel Marti Rodriguez			
17:00	Preparedness and Response to Radiological Emergencies. R Mustonen	TS9a.1		
17:20	Promoting Use of Local Volunteer Radiation Professionals in Emergency Response to Assist in Population Monitoring and Public Shelter Operations. R McBurney	TS9a.2		
17:35	Radiological Emergency Preparedness and Response Training and Capability Development in South East Asia. A Popp	TS9a.3		
17:50	Implementation of an Awareness Tool to Post-Accidental Issues for Local Actors. C Gauvin	TS9a.4		
18:05	MOIRA-PLUS use in Decision Making on the Long-term Management of Contaminated Freshwater Bodies and Catchments. E Gallego	TS9a.5		

Wednesday 16 May 2012

F2.1 Dosimetry and Measurement (ICRU)

09:00 Current and Recent ICRU Activities F2.1.1 in Radiation Protection Dosimetry and Measurements. H Menzel

Operational Quantities for External 09:20 F2.1.2

Radiation Exposure - Shortcomings and Alternative Options. G Dietze

ICRU Report 86: A Consideration of 09:40 F2.1.3 Low-Dose Metrics. B Michael

54.2 Teaching RP in Schools

Type: Symposium

Date: Wednesday, May 16, 2012

Time: 09:00 - 10:30 Room: Boisdale Chair: Ann McGarry

Rapporteur: Rick Jones

09:00 Recipe For Successful Science S4.2.1 Teacher Workshops. C Tarantino 09:15 **Teaching Radiation Protection** S4.2.2

in Schools, P Livolsi

Radiation Protection Culture at 09:30 School: Feedback Experience and Perspective. T Schneider

09:45 A Swiss-German Approach to Introducing S4.2.4 Pupils, Students, and Young Professionals

to Radiation Protection. J Breckow The Project of the Spanish Nuclear S4.2.5 10:00

Industry Forum to Elaborate a Didactic Interactive Material on

Radiological Protection. P Sanchez 10:15 Teaching of Radiation Protection in \$4.2.6 Primary and Secondary Schools. L Lau













S4.2.3

TS6c: NORM in Mining and Industry				
Type:		Technical Session		
Date:		Wednesday, May 16, 2012		
Time:		09:00 - 10:30		
Room		Alsh		
Chair:		Peter Shaw		
Rappo	rteur:	Peter Waggitt		
09:00	Expos	tion Protection Challenges for ures to Naturally Occurring active Material (NORM). P Haridasan	Ts6c.1	
09:20		ates of Effective Doses Among Uranium Miners. L Tomasek	TS6c.2	
09:35		ems Experienced when dealing he Decommissioning of	TS6c.3	

	Radioactive Material (NORM). P Haridasan	
09:20	Estimates of Effective Doses Among Czech Uranium Miners. L Tomasek	TS6c.2
09:35	Problems Experienced when dealing with the Decommissioning of NORM Contaminated Oil Production Installations and Vessels. B Heaton	TS6c.3
09:50	Dose Assessments Uncertainties for NORM Management in Conventional Hazardous Waste Disposals. J Mora	TS6c.4
10:05	A Prospective Radiological Risk Assessment for a Phosphate Industry Project. D da Costa Lauria	TS6c.5
10:20	Radioactivity in Raw Materials and Waste from NORM industries in China. J Luo	TS6c.6

T57c	: Justification of Medical Exposur	es
Type:	Technical Session	
Date:	Wednesday, May 16, 2012	
Time:	09:00 - 10:30	
Room:	: Lomond Auditorium	
Chair:	Maria Perez	
Rappoi	rteur: David Sutton	
09:05	Strengthening Justification of Medical Exposure in Diagnostic Imaging. J Le Heron	TS7c.1
09:20	Justification and Medical Exposures: Context and Implementation Issues in Practice. J Malone	TS7c.2
09:35	DEBATE: 'The rapid expansion of CT can be adequately justified through the existing framework of referral criteria'. Motion Proposer: D Remedios. Motion Opposer: W Huda	TS7c.3

TS11a	: Prot	ection of the Environment	
Type:		Technical Session	
Date:			
Time:		09:00 - 10:30	
Room:		Dochart	
Chair:			
Rappor	teur:	Carl-Magnus Larsson	
09:00	Fauna	logical Protection of Flora and Throughout Australia – Developing onal Approach. M Grzechnik	TS11a.1
09:15		lling radiation dose effects to e populations. J Vives i Batlle	TS11a.2
09:30	of Biot	ging Issues in Radiation Protection ta– The Impact of Non-Targeted biological Effects. C Mothersill	TS11a.3
09:45	Break with E	tion of DNA Double-Strand Repair in Zebrafish and Links ffects on Reproduction and opment. C Guillermin	TS11a.4
10:00	and As	sment of the Radiological Impact ssociated Risk to Non-human Biota commissioned Niobium (Nb) Mining Norway. J Mrdakovic Popic	TS11a.5
10:15	Monitor of an E	w of Environmental Radiological oring Programmes and Development Environmental Radiological oring Guide. J Benetto	TS11a.6

Total rukustiitta. Hittuspitetti dispersiott		
Type:	Technical Session	
Date:	Wednesday, May 16, 2012	
Time:	09:00 - 10:30	
Room:	Clyde Auditorium	
Chair:	Miroslav Pinak	
Rapporteu	ır: Ted Lazo	
fo	sessment of Atmospheric Dispersion TS12a.1 r the Fukushima Dai-ichi Nuclear ower Plant Accident. A Mathieu	
Ca Wo of	easurements and Dispersion TS12a.2 alculations by the Deutscher etterdienst Regarding the Release Radionuclides at Fukushima-Daiichi uclear Power Plant. T Steinkopff	













		. *
09:30	Monitoring of Radionuclides in the Air in the Czech Republic After the Fukushima NPP Accident. M Hyza	TS12a.3
09:45	Operational Use of Atmospheric Dispersion Models in Denmark Supporting Decision Making During the Fukushima Daiichi Accident. S Hoe	TS12a.4
10:00	Comparison Of Dispersion Model Outputs And Radioactivity Measurements Made In Ireland Following The Fukushima Accident. K Smith	TS12a.5

T52d	: Instrumentation and Measurem	ent I
Type:	Technical Session	
Date:	Wednesday, May 16, 2012	
Time:	11:30 - 13:00	
Room:	Lomond Auditorium	
Chair:		
Rappoi	rteur: Franz Josef Maringer	
11:30	Improvement of Construction of Recombination Chamber for Mixed Radiation Dosimetry at Workplaces. M Gryzinski	TS2d.1
11:45	Nordic Intercomparison Campaign for Whole Body Counters – Evaluation of the Performance of the Facilities and Inventory of Regional Resources. L del Risco Norrlid	TS2d.2
12:00	A Novel Dosimetry System for Military Use in Response of Nuclear Emergencies. M Kirr	TS2d.3
12:15	Design and Setup of a New HPGe Detector Based Body Counter Capable of Detecting Also Low Energy Photon Emitters. O Marzocchi	TS2d.4
12:30	Wearing More Than One Dosemeter - How Do We Explain the Differences? P Burgess	TS2d.5
12:45	Measurement of Radio-nuclides in Radioactive Aerosols Produced in a 120- GeV Proton Target Station. S Sekimoto	TS2d.6
13:00	Radon Exhalation from Mine Tailings Dams in South Africa. J Ongori	TS2d.7
13:15	Use of Phoswich Detector for Simultaneous Monitoring of High Energy Photon and its Applications in In vivo Lung Counting. TBC	TS2d.8

TS3c: RP System: Regulation

Technical Session Type:

Date: Wednesday, May 16, 2012

Time: 11:30 - 13:00 Room: Clyde Auditorium

Chair: Michel Bourguignon

Charles Temple Rapporteur:

11:30 The Euratom Basic Safety Standards TS3c.1 Directive. I Robinson

11:45 Ongoing efforts of HERCA on the TS3c.2 Harmonisation of the Radiological Monitoring Systems for Outside Workers. A Fremout

12:00 Why an Effective National Regulatory Infrastructure is Essential for a Country's

Radiation Protection System. D Mroz 12:15 **Radiation Protection Challenges** TS3c.4 in Kenya. J Maina

12:30 Considerations of Transfrontier Shipment TS3c.5 of NORM Waste from the North Sea Oil and Gas Industries. M Nilsen

Regulatory Stantards to Control Radiological TS3c.6 12:45 and Nuclear Fuel Cycle Facilities. L Castro

KIDS 4 Approaches to Engaging with Society

Type: **KIDS Session**

Date: Wednesday, May 16, 2012

Time: 11:30 - 13:00

Room: Alsh

Chair: **Rick Jones** Moderator: **Tony Bandle** Rapporteur: **Sven Nagels**

Panel: V Covello, H Grogan, O Haruyuki, Remarks:

L Mann, P Dorfman, M Koskelainen













TS3c.3

TS7d: QA, Audit & Shielding in Diagnostic Radiology

Date:	Wednesday, May 16, 2012	
Time:	11:30 - 13:00	
Room:	Boisdale	
Chair:	Pablo Jimenez	
Rappoi	teur: Constantin Milu	
09:00	Quality Control and Patient Dosimetry on line for Computed Tomography. E Vano	TS7d.1
09:15	Radiation Dose Optimization Approach At Dubai Health Authority Hospitals: The Control Of Patient CT Radiation Exposures During 2008-2010. J Al Suwaidi	TS7d.2
09:30	An Effective Method of Patient	TS7d.3

09:30	An Effective Method of Patient Radiation Safety Assessment in a University Medical Center. S King	TS7d.3
09:45	Latin American Results in Diagnostic Mammography under IAEA Programme: Radiological Protection of Patients in Medical Exposures (TSA3). P Mora	TS7d.4
10:00	A New Method for Dosimetry and Image Quality Assurance in Mammography and Breast Tomosynthesis. H de las Heras Gala	TS7d.5
10:15	Implementation of Acceptability Criteria for Medical Radiological Equipment in Belgium. T Clarijs	TS7d.6
10:30	Radiation Protection of the Australian Public via the Introduction of a National	TS7d.7

TS9b: Accident Consequence Management

Diagnostic Reference Level Scheme. P Marks

Type:		Technical Session	
Date:		Wednesday, May 16, 2012	
Time:		11:30 - 13:00	
Room:		Dochart	
Chair:		Michael Boyd	
Rappoi	rteur:	Cyril Croteau	
11:30	Emerg Ameri	simetric Response to Radiation gencies: Accidental Exposures in Latin ica- Examples of Recent Responses r IAEA-RANET System. M Di Giorgio	TS9b.1
11:45	of the	v Strategy for the Delimitation Post-Accidental Zoning after lear Accident. J Godet	TS9b.2

12:00	The Calculation of Dose to Externally	TS9b.3
	Contaminated Livestock and Animal	
	Triage for Livestock Handling	
	and Processing. A Brandl	
12:15	Canadian Radiation Emergency Medical	TS9b.4
	Management Guide. G Kramer	
12:30	MULTIBIODOSE: multi-disciplinary	TS9b.5
	biodosimetric tools to manage high	
	scale radiological casualties. A Wojcik	

IRPA General Assembly

Plenary Session Type:

Wednesday, May 16, 2012 Date:

Time: 14:00 - 18:30

Room: Lomond Auditorium

The SRP Schools Event, including the Annual John Dunster Memorial Lecture: The Importance of Radiation in Medicine

Type: Plenary Session

Wednesday, May 16, 2012 Date:

13:30 - 14:45 Time: Clyde Auditorium Room: Presenter: Peter Marsden

Note: This lecture is open to IRPA13 delegates

Workshop 7.1: Room Design in Diagnostic Radiology

Wednesday, May 16, 2012

Workshop 7.2: Patient Dose Calculation in Computed Tomography













Thursday 17 May 2012

TS2e	e: Instrumentation and Measurement II		ent II
Type:	Techn	ical Session	
Date:		day, May 17, 2012	
Time:	09:00		
Room:		and Auditorium	
Chair:		es Stadtmann	
Rappor	teur: Sande	er Perle	
09:00		ew Eye Lens Dosemeter Staff. R Kopec	TS2e.1
09:15		ormation of the New rsonal Dosimeter. K Bennett	TS2e.2
09:30	Dosimeter Ba	Neutron Albdo adge using Aluminum s. B Mukherjee	TS2e.3
09:45	A Personal D in a Box. C Pe	osimetry System erks	TS2e.4
10:00	Fast Neutron Bipolar Trans	tion of a Research Reactor's I Irradiator Using Silicon iistors and Calcium Fluoride nescent Dosimetry. M Talmadge	TS2e.5
10:15	nothing? Dec	u say when there is almost cision thresholds associated e measurements and their use nental monitoring. G Magnificat	TS2e.6

F3.1 Ethi	ics and Values (NEA/ICRP)
Type:	Forum
Date:	Thursday, May 17, 2012
Time:	09:00 - 10:30
Room:	Dochart
Chair:	Sisko Salomaa
Rapporteur	r: Burcin Okyar
	nics in Medical Radiological F.3.1.1 ptection. C Cousins
Eth	Precautionary Principle and the F3.1.2 nical Foundation of the Radiation otection System. J Lochard
	Cross-Cultural Approach to Questions of F3.1.3 nics in Radiation Protection. F Zölzer
10:00 Eth	nics in Radiological Protection. A Gonzalez F3.1.4

TS6d: Non-nuclear Industry, Research, Transport and Security

Rappor	teur: Peter Shaw	
09:00	WNTI Perspective on the Transport of Radioactive Materials. G Owen	TS6d.1
09:15	Improving the Security of Radioactive Sources in Industrial Radiography in South East Asia. A Popp	TS6d.2
09:30	Search for Non-registered Radioactive Sources - an Important Part of the National Inspection Programme. H Janzekovic	TS6d.3
09:45	Radiation Safety at the PRIMA facility: A Review of Shielding Solutions and Personnel Dose Assessment. S Sandri	TS6d.4
10:00	Current Practice of Occupational Radiation Protection in Industrial Radiography. J Le Heron	TS6d.5
10:15	Probabilistic Radiological Risk Assessments for Radiation Facilities with Vague Information. H Jang	TS6d.6
10:30	The Safety Case for Transporting	TS6d.7

TS7e: Radiation Protection Challenges in Interventional & Paediatric Radiology

Spent Nuclear Fuel. C Kros

Challenges in Paediatric Interventional TS7e.1 Fluoroscoppy. K Strauss

09:20 International Project on Individual TS7e.2

Monitoring and Radiation Exposure Levels in Interventional Cardiology. P Padovani















09:50	Paediatric Computed Tomography Exposure and Radiation-Induced Cancer: The French Ongoing Cohort of Childhood CT Scan. M Bernier	TS7e.4
10:05	Basic Recommendations for Interventional Procedures. R Touzet	TS7e.5
10:20	Randomized Comparison of Occupational Dose between Radial and Femoral Access for Percutaneous Coronary Intervention, (Radifemoproc). A Duran	TS7e.6
10:35	Estimation of Occupational Radiation Dose Levels of Interventional Cardiologists at the Philippine Heart Center. M Maano	TS7e.7

TS10c: Radon			
Type:	Technical Session		
Date:	Thursday, May 17, 2012		
Time:	09:00 - 10:30		
Room:	Forth		
Chair:	Sergey Kiselev		
Rappor	teur: Astrid Liland		
09:00	Recent Developments in the Regulatory Control of Radon Exposure in Spain. Garcia-Talavara	TS10c.1	
09:15	The Effect of New Building Concepts on Indoor Radon. W Ringer	TS10c.2	
09:30	Radon prevention and remediation in EU countries, RADPAR questionnaire study. H Arvela	TS10c.3	
09:45	Short and Long-Term Radon Measurements in Domestic Premises: Reporting results in terms of the HPA Action and Target Levels. A Denman	TS10c.4	
10:00	Reverse Seasonal Variations Of Indoor Radon Concentration. F Bochicchio	TS10c.5	
10:15	Role Of Residential Radon In Childhood Leukaemia Incidence: The Geocap Program. C Demoury	TS10c.6	
10:30	A Long-term Programme to Measure and Mitigate Radon Gas in English Schools - Progress Review and Lessons Learned. T Gooding	TS10c.7	

TS12b: Fukushima: Impact and Public Reaction

Rappor	teur: Ted Lazo	
09:00	Public Reaction to the Fukushima Accident in Korea and its Implications in Nuclear Safety and Risk Communication. J Lee	TS12b.1
09:15	Responding to Public Fears on Transboundary Radioactive Contamination from Fukushima Daiichi Accident. M Misshar	TS12b.2
09:30	Content Analysis of the Media Reporting on the Fukushima Nuclear Accident in three European Countries. M Cantone	TS12b.3
09:45	Japanese Earthquake and Tsunami: Implications for the UK Nuclear Industry. C Temple	TS12b.4
10:00	Radiation Protection and Emergency Preparedness Aspects of the U.S. Nuclear Energy Industry Response to the Fukushima Dai-ichi Accident. R Andersen	TS12b.5
10:15	Decontamination and Recovery Aspects of the Fukushima Accident. A McGarry	TS12b.6
10:30	The IAEA's Incident And Emergency Centre: Response To The Accident At	TS12b.7

TS2f: Metrology and Dosimetry Standards

Tepco's Fukushima Daiichi Nuclear Power Station. E Buglova

Eurados Intercomparisons for TS2f.1 11:00 **Individual Monitoring Services:** Results and Conclusions from the First Three Exercises. A McWhan













11:15	International Co-operation, Basic Principles and Ongoing Developments In Radiation Protection Metrology and Measurements. F Maringer	TS2f.2
11:30	Radiation Protection Dosimetry in Pulsed Radiation Fields. O Hupe	TS2f.3
11:45	ISO/TC 85/SC2 Radiological Protection. A Rannou	TS2f.4
12:00	Characterization of an 241AmBe neutron irradiation facility by different spectrometric techniques. E Gallego	TS2f.5
12:15	Radiation Protection of Patients: Status of Primary Standard Dosimetry of High-Energy Photon and Electron Beams in Austria. A Baumgartner	TS2f.6

TS3d: RP System: Evolution		
and li	mplementation	
Type:	Technical Session	
Date:	Thursday, May 17, 2012	
Time:	11:00 - 12:30	
Room:	Clyde Auditorium	
Chair:	Don Cool	
Rappor	teur: Caroline Schieber	
11:00	NEA Stakeholder Involvement	TS3d.1
	in the Development of ICRP	
11:15	Recommendations. S Magnusson	TS3d.2
11:15	Dose Constraints and other Policy and Practical Issues in Occupational	1330.2
	Radiation Protection. G Frasch	
11:30	Findings from a Workshop on the	TS3d.3
	Practical Implementation of the new	
	ICRP Recommendations: a Contribution of the NERIS Platform. T Duranova	
11:45	The Influence of ICRP 103 on Current	TS3d.4
11.45	Actions of the U.S. Environmental	1330.4
	Protection Agency. M Boyd	
12:00	What Resources Were Needed to Implement	TS3d.5
	ICRP 60, and What Resources May Be	
	Needed to Implement ICRP 103? J Valentin	

F6.3 Nuclear Industry Forum (WNA)

Thursday, May 17, 2012

57.1 Medical Exposures, Radiation Risk and the Public

UNSCEAR report on Medical S7.1.1 Exposures. K Faukner

Management of Patient Dose 11:20 \$7.1.2 in Radiology: Which Models can

achieve Optimisation? C Martin **Current Epidemiology Studies of Risks** S7.1.3 11:40

Associated With CT Scans, M Pearce

12:05 Patient perspective on risk and justification S7.1.4 for medical exposures. J Turner

510.1 Radon

Type: Symposium

Date: Thursday, May 17, 2012

Time: 11:00 - 12:30

Room: Forth

Chair: James McLaughlin

Rapporteur: Christophe Murith

11:00 Residential Radon, Smoking S10.1.1 and Lung Cancer. S Darby

11:20 ICRP Radon recommendations, J Lecomte S10.1.2 S10.1.3

11:40 The Impact of UK Government Targets for Smoking Cessation on

the Effectiveness of the Radon

Remediation Programme. A Denman

The National Radon Program – a Success 11:55

Story Continuing in Canada. J Chen

12:10 A Nationwide Radon Survey in Finland -S10.1.5 Prevention in new Construction. H Arvela













S10.1.4

TS12c: Fukushima Protection and Risk Issues

Type: Technical Session

Date: Thursday, May 17, 2012

Time: 11:00 - 12:30
Room: Dochart
Chair: Elena Buglova

Rappor	teur: Ted Lazo	
11:00	Key Issues on Radiological Protection from Radioactive Waste Management in Existing Exposure Situation. D Sugiyama	TS12c.1
11:15	Comparative Analysis Of The Radionuclide Composition In Fallout After The Chernobyl And The Fukushima Accidents. S Shinkarev	TS12c.2
11:30	Practical Retrospective Dosimetry: Looking Back to Chernobyl with a View Forward at Fukushima. V Chumak	TS12c.3
11:45	Assessment on the 66th Day of Projected External Dose for Populations Living in the North-West Fallout Zone of the Fukushima Nuclear Accident. A Thomassin	TS12c.4
12:00	Radiation and Radioactivity Monitoring in the Surrounding Environment after Fukushima Daiichi Nuclear Power Plant accident 1. Overview. T Nakamura	TS12c.5
12:15	Estimation of Internal Exposure Dose of the Population Caused by Inhaled Radioactive	TS12c.6

TS9c: Emergencies: Lessons Learned & New Threats

Materials Released in Early Stage of Fukushima Nuclear Disaster. I Urabe

Type: Technical Session

Thursday May 17, 20

Time: 14:15 - 15:45

Room: Dochart

Chair: Kazuo Sakai

Rapporteur: Ramon de la Veg

14:15 Nuclear Security for the 2010 FIFA World TS9c.1
Cup in South Africa: Part 2: Summary of Logistics and Results. C Kros

14:30 INEX 4 Exercise on Consequence TS9c.2 Management and the Transition

to Recovery. B Ahier

14:45	Lessons From Three Major Fires In The UK Non-Nuclear Sector. G Thomas	TS9c.3
15:00	Revisiting the Dose Calculation Methodologies in European Decision Support Systems. K Andersson	TS9c.4
15:15	Nuclear Security and Emergencies in Case of Malevolent Acts Against Nuclear Power Plants. R Caro	TS9c.5

T52g: Numerical and Computational Dosimetry

14:15 Library of Mesh and NURBS Female TS2q.1 Phantoms for Pulmonary in Vivo Body Counting Studies. J Farah 14:30 Influence of Head Shape on Measured TS2q.3 Activity of Actinides. T Vrba Comparison Of Internal And External 14:45 TS2q.4 **Dose Conversion Factors Using** ICRP Adult Male And Meetman Voxel Model Phantoms. D Leone 15:00 Age Dependence of Dose Rates in TS2g.5 the Enamel of Teeth Contaminated by 90Sr -90. A Volchkova

Absorbed Fractions for Multi-Region TS2g.6 Models of the Kidnevs in ICRP/

F3.2 Legal Aspects of RP (INLA)

ICRU Voxel Phantoms. S Kinase

Type: Forum

15:15

Thursday, May 17, 2012 Date:

14:15 - 15:45 Time: Room: **Boisdale** Chair: Stephen Burns

Rapporteur: Ximena Vásquez-Maignan













KIDS 6 Nuclear Fuel Cycle

Type: KIDS Session

Date: Thursday, May 17, 2012

Time: 14:15 - 15:45

Room: Clyde Auditorium
Co-Chair: Toshiso Kasako
Co-Chair: Bernard Le Guen
Co-Chair: Phil Metcalf

Rapporteur: Willie Harris Moderator: Ralph Anderser

Renate Czarwinski, Jack Hurst

Panellists: (WANO), Anne McGarry, Caroline

Schieber, Yang Huating

14:15 Feedback from Helsinki Congress. B Le Guen14:25 Feedback from Tokyo Congress. P Metcalf

14:35 New Challenges following Fukushima Daiichi. T Kasako

14:45 Panel Statements

15:15 Panel Discussion and Questions

Supported by:



KIDS 7 Medical

Type: KIDS Session

Date: Thursday, May 17, 2012

Time: 14:15 - 15:45

Room: Lomond Auditorium
Chair: Keith Faulkner

Rapporteur: Claire-Louise Chappie

Panellists: Maria Perez, Jean Turner

14:15 Highlights from week's sessions. K Faulkner
 Reports from Regional Congresses
 14:25 Helsinki. R Bly
 14:30 Columbia. E Girozin

14:35 Tokyo. K Akahane

14:40 Nairobi. M Kawooya

14:50 Panel Discussion and Questions

S11.1 Environmental Protection 14:15 Principles and Concepts in Radiation S11.1.1 Protection of the Environment. J Pentreath 14:35 Application of Radiological Protection S11.1.2 Measures to Meet Different Environmental Protection Criteria. D Copplestone **RBE** and Radiation Weighting S11.1.3

Factors as Applied in the Context of Protection of the Environment from Ionising Radiation. K Higley

	ystem of Protection: Current uture Developments	
Type:	Plenary Session	
Date:	Thursday, May 17, 2012	
Time:	16:15 - 18:15	
Room:	Clyde Auditorium	
Chair:	Luis Echavarri	
Rappor	teur: Ted Lazo	
16:15	Overview on the future of the RP system. L Echavarri	PL4.1
16:20	UNSCEAR Perspective. W Weiss	PL4.2
16:35	The System of Protection: Future Developments – ICRP Perspective. C Cousins	PL4.3
16:50	IAEA Perspective. R Czarwinski	PL4.4
17:05	System of Radiation Protection: EC Perspective. A Janssens	PL4.5
17:20	Nuclear Sector Perspective. R Andersen	PL4.6
17:25	NORM Sector Perspective. G Liebenberg	PL4.7
17:30	Medical Sector Perspective. K Faulkner	PL4.8
17:35	Asian Perspective. K Kang	PL4.9
17:40	Latin American Perspective. E Medina Gironzo (TBC)	PL4.10
17:45	European Perspective - New ICRP Recommendations and Regulatory Development – Findings of The 2010 European IRPA Congress. J Valentin	PL4.11
17:50	Key Issues Panel Discussion and Questions	



14:55











Friday 18 May 2012

Lessons and Challenges following the Fukushima Accident

Type: Plenary Session

Date: Friday, May 18, 2012

Time: 09:00 - 11:15

Room: Clyde Auditorium

Chair: Denis Flory

Rapporteur: Ted Lazo

09:10 Fukushima Lessons and Challenges

Rappo	rteur: Ted Lazo	
09:10	Fukushima Lessons and Challenges in Japan. S Matsura	PL5.4
09:30	Lessons and Challenges for the US. W Magwood	PL5.2
09:50	Lessons and Challenges for the Czech Republic. D Drabova	PL5.3
10:10	Lessons and Challenges for a Nuclear Utility. B Le Guen	PL5.6
10:30	Lessons and Challenges for ICRP. A Gonzalez	PL5.5
10:50	Citizen Monitoring Following the Fukushima Disaster. D Boilley	PL5.7

Congress Conclusion

Type: Plenary Session

Date: Friday, May 18, 2012

Time: 11:45 - 12:30 Room: Clyde Auditorium

Presenter: Ted Lazo

Closing Ceremony

Type: Plenary Session Date: Friday, May 18, 2012

12:30 - 14:00 Time: Clyde Auditorium

- Kenneth Kase (Outgoing IRPA President): Opening Remarks
- Presentation of the Swedish Academy Gold Medal to Keith F Eckerman
- Presentation of the IRPA13 Young Professionals Awards
- Presentation of IRPA Service Awards
- Transfer of the IRPA Bell to the Incoming IRPA President
- John Broughton (SRP President): Transfer of IRPA Flag the IRPA14 Congress President
- Renate Czarwinski: Incoming President's Address "IRPA in the Future"
- Official Closing and Polvani Bell













Poster Sessions and presentations

Poster s	essions A-B: Area 1	
Type:	Poster Session	
Topic:	Biological and Health Effects of Ionising Rac	diation
	Monday 14 and Tuesday 15 May 2012	ulation
Date:		
Time:	16:00 - 17:00 hours	
Room:	Hall 4	D01 01
Sakovich, VA;	n of interpopulation transfer of risk coefficients Subin, AT	P01.01
Compared to C Mahmoud Pas	ological Effectiveness of 1311 Beta Particles Gamma Radiation <u>hazadeh, Ali</u> ; Neshasteh- vi, Seyed Rabie	P01.02
in their Cyto- a	Electron Emitters I-123 and I-125 Show Differences Ind Genotoxic Potential? Beger, A; Oskamp, D; Pomplun, E	P01.03
Properties of N	na Irradiation on the Biophysical and Protection Melanin J; MM, Mohsen; Al-Ayed, MS; Haseeb, AM	P01.04
and Stem Cells Portas, M; Di G	.C., Acellular Matrices, Enzymatic Debridement Therapy as Adjuntive Treatment for C.R.S iorgio, M; Coppola, A; Giongrande, J Mansilla, E; Drago, H; Ortega, J C	P01.05
Procedures Portas, M; Cop	ies in Fluoroscopically Guided Interventional pola, A; Di Giorgio, M; Giongrande, J C; De illa, E; Drago, H; Ortega, J C; Dovasio, F	P01.06
Daughters in L	ne Environmental Health Impact of Radon and its ight of Combustion Products mcilovic, B; Ward, T; Jagam, P	P01.07
Contamination 90-Strontium	Absorbed Radiation Doses Following a Chronic through Ingestion of Either 137-Cesium or haeve, N; Stefani, J; Desbre, A;	P01.08
Gamma Irradia Vilic, M; Aladro	atus in Chicken Embryo Liver after Low Dose ition vic, J; Beer Ljubic, B; Gottstein, Z; iljanic, S; Kraljevic, P	P01.10
	e and Anti-Carcinogenic Potentials of Mentha Evaluation of cytotoxicity	P01.11
Human Lymph Sebastia, N; Alı	re Activity And Genotoxic Effects Of Curcumin In nocytes Cultures monacid, M; Navarro, M; Villaescusa, JI;	P01.12

Cervera, J; Silla, MA; Such, E; Soriano, JM; Montoro, A

Statistical Evaluation of Subtle Effect of Continuous Low Dose rate Gamma-Irradiation on Murine Inflammatory Reaction Ogata, H; Magae, J Pre-clinical Evaluation of 188Re(V)oxo Complexes as Potential Agents for Melanoma Therapy Fernandez Castro, S; Giglio, J; Terán, M; Incerti, M; Agorio, C; Chabalgoity, A; Rey, A Cognitive and Cerebrovascular Effects Induced by Low Dose Ionising Radiation "CEREBRAD EU project" Benotmane, A Accumulation of Man-Made Radionuclides by Mushrooms Nearby the Site for SNF and RW Temporary Storage in Andreeva Bay of Kola Peninsula Methyaev, EG; Schelkanova, ES; Natha, SV; Shchagin, YA Indices Of Blood Lipids In Workers Exposing Long-Term Radiation In A Range Of Low Doses Semenova, YuY; Earpov, AB; Dubin, VV; Kalinkin, DE; Baranova, IA; Takhauov, RM The Cytogenetic Abnormalities of Blood Lymphocytes in the Cohort of Siberian Group of Chemical Enterprises Personnel Litvyakov, NV; Vasilyeva, EO; Goncharik, OO; Bondaruk, AA; Mezheritsky, SA; Takhauov, RM; Karpov, AB Repair of DNA Single- and Double-Strand Breaks in Peripheral Blood Lymphocytes of Chronically Exposed Individuals. Pogodina, AV; Akleyev, AV Biological Material Bank Of The Seversk Biophysical Research Centre Takhauov, RM; Karpov, AB; Mezheritsky, SA; Vasilyeva, EO; Goncharik, OO; Mironova, EB; Albach, EN; Semenova, YuV; Bondaruk, AA; Nekrasov, GB; Izosimov, AS; Gagarin, AA; Litvyakov, NV Allelic Imbalance of Genes in Spontaneus Tumor and in Tumor of Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach, EN; Vasilyeva, EO; Karpov, AB; Takhauov, RM Apoptosis and Mutations in the Cell Cycle Delay in Individuals Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Bilinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, MI; Revina, VS; Pav		
Agents for Melanoma Therapy Fernandez Castro, S; Giglio, J; Terán, M; Incerti, M; Agorio, C; Chabalgoity, A; Rey, A Cognitive and Cerebrovascular Effects Induced by Low Dose lonising Radiation "CEREBRAD EU project" Benotmane , A Accumulation of Man-Made Radionuclides by Mushrooms Nearby the Site for SNF and RW Temporary Storage in Andreeva Bay of Kola Peninsula Metlyaev, EG; Schelkanova, ES; Natha, SV; Shchagin, YA Indices Of Blood Lipids In Workers Exposing Long-Term Radiation In A Range Of Low Doses Semenova, YuV; Earpov, AB; Dubin, VV; Kalinkin, DE; Baranova, IA; Takhauov, RM The Cytogenetic Abnormalities of Blood Lymphocytes in the Cohort of Siberian Group of Chemical Enterprises Personnel Litvyakov, NV; Vasilyeva, EO; Goncharik, OO; Bondaruk, AA; Mezheritsky, SA; Takhauov, RM; Karpov, AB Repair of DNA Single- and Double-Strand Breaks in Peripheral Blood Lymphocytes of Chronically Exposed Individuals. Pogodina, AV; Akleyev, AV Biological Material Bank Of The Seversk Biophysical Research Centre Takhauov, RM; Karpov, AB; Mezheritsky, SA; Vasilyeva, EO; Goncharik, OO; Mironova, EB; Albach, EN; Semenova, YuV; Bondaruk, AA; Nekrasov, GB; Izosimov, AS; Gagarin, AA; Litvyakov, NV Allelic Imbalance of Genes in Spontaneus Tumor and in Tumor of Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach, EN; Vasilyeva, EO; Karpov, AB; Takhauov, RM Level of Lymphocytes in the Cell Cycle Delay in Individuals Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Bilinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkin	rate Gamma-Irradiation on Murine Inflammatory Reaction	P01.13
lonising Radiation "CEREBRAD EU project" Benotmane , A Accumulation of Man-Made Radionuclides by Mushrooms Nearby the Site for SNF and RW Temporary Storage in Andreeva Bay of Kola Peninsula Metlyaev, EG; Schelkanova, ES; Natha, SV; Shchagin, YA Indices Of Blood Lipids In Workers Exposing Long-Term Radiation In A Range Of Low Doses Semenova, YuV; Earpov, AB; Dubin, WV; Kalinkin, DE; Baranova, IA; Takhauov, RM The Cytogenetic Abnormalities of Blood Lymphocytes in the Cohort of Siberian Group of Chemical Enterprises Personnel Litvyakov, NV; Vasilyeva, EO; Goncharik, OO; Bondaruk, AA; Mezheritsky, SA; Takhauov, RM; Karpov, AB Repair of DNA Single- and Double-Strand Breaks in Peripheral Blood Lymphocytes of Chronically Exposed Individuals. Pogodina, AV; Akleyev, AV Biological Material Bank Of The Seversk Biophysical Research Centre Takhauov, RM; Karpov, AB; Mezheritsky, SA; Vasilyeva, EO; Goncharik, OO; Mironova, EB; Albach, EN; Semenova, YuV; Bondaruk, AA; Nekrasov, GB; Izosimov, AS; Gagarin, AA; Litvyakov, NV Allelic Imbalance of Genes in Spontaneus Tumor and in Tumor of Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach, EN; Vasilyeva, EO; Karpov, AB; Takhauov, RM Level of Lymphocytes in the Cell Cycle Delay in Individuals Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Blinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients	Agents for Melanoma Therapy Fernandez Castro, S; Giglio, J; <u>Terán, M</u> ; Incerti,	P01.14
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In A Range Of Low Doses Semenova, YuV; Earpov, AB; Dubin, VV; Kalinkin, DE; Baranova, IA; Takhauov, RM The Cytogenetic Abnormalities of Blood Lymphocytes in the Cohort of Siberian Group of Chemical Enterprises Personnel Litvyakov, NV; Vasilyeva, EO; Goncharik, OO; Bondaruk, AA; Mezheritsky, SA; Takhauov, RM; Karpov, AB Repair of DNA Single- and Double-Strand Breaks in Peripheral Blood Lymphocytes of Chronically Exposed Individuals. Pogodina, AV; Akleyev, AV Biological Material Bank Of The Seversk Biophysical Research Centre Takhauov, RM; Karpov, AB; Mezheritsky, SA; Vasilyeva, EO; Goncharik, OO; Mironova, EB; Albach, EN; Semenova, YuV; Bondaruk, AA; Nekrasov, GB; Izosimov, AS; Gagarin, AA; Litvyakov, NV Allelic Imbalance of Genes in Spontaneus Tumor and in Tumor of Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach, EN; Vasilyeva, EO; Karpov, AB; Takhauov, RM Level of Lymphocytes in the Cell Cycle Delay in Individuals Pol.22 Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Bilinova, EA; Veremeyva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Bilinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source Pol.24 For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients Pol.26	Nearby the Site for SNF and RW Temporary Storage in Andreeva Bay of Kola Peninsula	P01.16
Cohort of Siberian Group of Chemical Enterprises Personnel Litvyakov, NV; Vasilyeva, EO; Goncharik, OO; Bondaruk, AA; Mezheritsky, SA; Takhauov, RM; Karpov, AB Repair of DNA Single- and Double-Strand Breaks in Peripheral Blood Lymphocytes of Chronically Exposed Individuals. Pogodina, AV; Akleyev, AV Biological Material Bank Of The Seversk Biophysical Research Centre Takhauov, RM; Karpov, AB; Mezheritsky, SA; Vasilyeva, EO; Goncharik, OO; Mironova, EB; Albach, EN; Semenova, YuV; Bondaruk, AA; Nekrasov, GB; Izosimov, AS; Gagarin, AA; Litvyakov, NV Allelic Imbalance of Genes in Spontaneus Tumor and in Tumor of Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach, EN; Vasilyeva, EO; Karpov, AB; Takhauov, RM Level of Lymphocytes in the Cell Cycle Delay in Individuals Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Blinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients P01.26	In A Range Of Low Doses Semenova, YuV; Êarpov, AB; Dubin, VV;	P01.17
Blood Lymphocytes of Chronically Exposed Individuals. Pogodina, AV; Akleyev, AV Biological Material Bank Of The Seversk Biophysical Research Centre Takhauov, RM; Karpov, AB; Mezheritsky, SA; Vasilyeva, EO; Goncharik, OO; Mironova, EB; Albach, EN; Semenova, YuV; Bondaruk, AA; Nekrasov, GB; Izosimov, AS; Gagarin, AA; Litvyakov, NV Allelic Imbalance of Genes in Spontaneus Tumor and in Tumor of Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach, EN; Vasilyeva, EO; Karpov, AB; Takhauov, RM Level of Lymphocytes in the Cell Cycle Delay in Individuals Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Blinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients	Cohort of Siberian Group of Chemical Enterprises Personnel Litvyakov, NV; Vasilyeva, EO; Goncharik, OO; Bondaruk,	P01.18
Centre Takhauov, RM; Karpov, AB; Mezheritsky, SA; Vasilyeva, EO; Goncharik, OO; Mironova, EB; Albach, EN; Semenova, YuV; Bondaruk, AA; Nekrasov, GB; Izosimov, AS; Gagarin, AA; Litvyakov, NV Allelic Imbalance of Genes in Spontaneus Tumor and in Tumor of Po1.21 Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach, EN; Vasilyeva, EO; Karpov, AB; Takhauov, RM Level of Lymphocytes in the Cell Cycle Delay in Individuals Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Blinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients P01.26	Blood Lymphocytes of Chronically Exposed Individuals.	P01.19
Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach, EN; Vasilyeva, EO; Karpov, AB; Takhauov, RM Level of Lymphocytes in the Cell Cycle Delay in Individuals Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Blinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients	Centre <u>Takhauov, RM</u> ; Karpov, AB; Mezheritsky, SA; Vasilyeva, EO; Goncharik, OO; Mironova, EB; Albach, EN; Semenova, YuV; Bondaruk, AA; Nekrasov, GB;	P01.20
Exposed to Chronic Radiation Exposure. Markina, TN; Veremeyeva, GA; Akleyev, AV Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation Blinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients P01.26	Persons Expoing Long-Term Occupational Radiation Goncharik, OO; Litvyakov, NV; Mezheritsky, SA; Albach,	P01.21
Lymphocytes in Persons Chronically Exposed to Radiation Blinova, EA; Veremeyva, GA; Akleyev, AV Radiobiology Repository Of Nuclear Workers As Unique Source For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients P01.26	Exposed to Chronic Radiation Exposure.	P01.22
For Studies Of Radiation Effect Kirillova, EN; Zakharova, ML; Revina, VS; Pavlova, OS; Uryadnitskaya, TI; Sokolova, SN; Muksinova, KN; Loffredo, CA Development of ICRP-66 Respiratory Tract Model Based on a Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients P01.26	Apoptosis and Mutations in the Gene of T-cell Receptor of Blood Lymphocytes in Persons Chronically Exposed to Radiation	P01.23
Study of Pu Microdistribution in Lung Romanov, SA; Schadilov, AE; Levkina, EV On the Question of Interpopulation Transfer of Risk Coefficients P01.26	For Studies Of Radiation Effect <u>Kirillova, EN</u> ; Zakharova, ML; Revina, VS; Pavlova, OS;	P01.24
	Study of Pu Microdistribution in Lung	P01.25
		DO1 26













ŀ	systems Biology of Cell Signaling: a Foundation of the Healthcare for People Exposed to Ionizing Radiation Kuzmina, NB; Gromova, NV; Zhestkov, BG; Zyablitsin, AV; Krupnov, AV; Smirnov, PhYu; Ivanova, EN; <u>Borisov, NM</u>	P01.27
(Appearance of Heavy DNA Fragments in Circulating Immune Complexes Justifies Radiation Exposure In Vivo. <u>Kabakov, AE</u> ; Makarova, YuM; Mosina, VA	P01.28
C	Modulation of Radiation Induced Biochemical Changes in Brain of Swiss Albino Mice by Punica Granatum Fruit Rind Extract Mathur, A; <u>Sharma, J</u>	P01.29
-1	enofibrate has Radioprotective Effect via PPARα-Mediated SOD nduction in HeLa cells .iu, X; Jang, S; An, Z; Song, H; Liu, X; Kim, W; Yu, J; <u>Park, W</u>	P01.30
1	Natural Radioactivity in the Soil Samples of Coastal Southern Nigeria. Natise, OO; Babalola, IA; Olowofela, JA	P01.31
	he Importance of Time in Low Dose Radiobiology Phenomena <u>Nodollahi, H</u> ; Teymuri, M	P01.32
	Radiation Survival Curve for Pediatrics Rhabdomyosarcoma Cells <u>brahim, Alexander</u> ; Kafi, Siddig; Idris, Omer	P01.33
	Bcl-2/BAX Ratio Modified By Low Doses Of Gamma Radiation Bahreyni Toossi, MT; Azimian, H; Fardid, R	P01.34
	ffects of N-acetyl-L-cysteine in two Yeast Strains (im, JK; Park, J; Nili, M	P01.35
1	Radiation Induced NF-KB Signaling Cascade Study In Mammalian Cells. <u>Chishti, AA</u> ; Hellweg, CE; Baumstark-Khan, C; Reitz, G	P01.36
1	Radiological Implications of Electronic Waste Dump-Sites in the Most Populous City in Nigeria <u>Arogunjo, AM</u>	P01.37
1	Development of Radioprotective Agent Using Smart Microorganism Roh, C	P01.38
r a Z	experimental study of pharmacokinetics and adioimmunoimaging of 1311-labeled monoclonal antibody E-B5 gainst Pro-Gastrin-Releasing Peptide(31-98) Zeng-Li Liu,; <u>Xiao-Lin Zhou,</u> ; Yi-Zhen Shi,; Shou-Ying Du ,; Qiao-Ling Xu,; Yong-Mei Shen,; Yi Yang,; Jun Tang,	P01.39
i	Granulocyte-colony stimulating factor (G-CSF) protects intestine njury and increases survival rate in irradiated mice (im , J S; Yang , K; Gong, E J; Heo, K	P01.40
] [N	onising Radiation and Environmental Toxicants can Interact During Brain Development to Exacerbate Cognitive Defects in Mice Eriksson, P; Stenerlöw, B; Fredriksson, A; Buratovic, S; <u>Sundell-Bergman, S</u>	P01.41
1	ndividual Radiosensitivity : A Key Issue in Radiation Protection <u>Bourguignon, M</u> ; Foray, N; Colin, C; Pauwels, E	P01.42
1	distamine and Its Ligands As Promising Radioprotectors Of Normal Tissues To Improve Radiotherapy Medina, VA; Carabajal , E; Croci, M; Martinel Lamas , D; Prestifilippo, JP; Elverdin, JC; Bergoc, RM; Rivera, ES; <u>Martin, G</u>	P01.43

Radioprotection of Sensitive Rat Tissues by Oligoelements Se, Zn, Mn plus Lachesis Muta Venom. Crescenti , El; Medina, VA; Croci, M; Sambuco, L; Prestifilippo, JP; Elverdin, JC; Martin, GA; Bergoc, RM; Rivera, ES	P01.44
Histamine Hinders Radiation-Induced Mesenchymal Transition In Epithelial Tumor Cells Mohamad, NA; Cricco, GP; Porretti, JC; Ventura, C; Núñez, MA; Cocca, CM; <u>Rivera, ES</u> ; Martín, GA	P01.45
Sanguinarine Is a Novel Radioprotector for Acute Whole Body Irradiation <u>Fan, S</u> ; Xu, J; Zhao, L; Jiao, Y	P01.46
Cancer Rates on the Area with Fuel-like Hot Particles Deposition – Unexpected Results <u>Brudecki, K;</u> Mietelski, J W; Kuzma, K; Bogacz, J	P01.47
Cancer And Non-Cancer Incidence Among Bulgarian Medical Radiogenic Workers <u>Chobanova</u> ,; Chobanova,; Chobanova,	P01.48
Individual Doses Estimation for the Semipalatinsk Historical Cohort <u>Granovskaya, E</u> ; Shinkarev, S; Katayama , H; Apsalikov, K; Hoshi, M	P01.49
Mortality From Cardiovascular Diseases And Occupational Uranium Exposure: Cohort And Nested Case-Control Studies Of French Uranium Workers Guseva Canu, I; Garsi, JP; Chablais, L; Samson, E; Jovanovich, I; Caër-Lorho, S; Acker, A; Niogret, C; Laurier, D	P01.50
Lessons of Chernobyl and Prognosis for Fukushima: Health Effects <u>Ivanov, VK</u>	P01.51
Infant Mortality Among Offsprings of Occupationally Exposed Fathers <u>Kabirova, NR</u> ; Okatenko, PV; Koshurnikova, NA	P01.52
Cancer Mortality in Personnel of the Siberian Group of Chemical Enterprises and in Population of Nearby Territories Kalinkin, DE; <u>Karpov, AB</u> ; Takhauov, RM; Samoylova, YuA; Shiryaeva, IV	P01.53
The Risk of Acute Myocardial Infarction Development in Siberian Group of Chemical Enterprises Personnel Exposing Long-Term Radiation Karpov, AB; Semenova, YuV; Litvinenko, TM; Takhauov, RM; Takhauov, RM	P01.54
Cancer Effects in the Population Chronically Exposed to Radiation on the Techa River <u>Krestinina, LYu</u> ; Preston, D; Davis, F; Epifanova, S; Akleyev, A	P01.55
Radiation Risk of Lung Cancer Incidence with regard to Histological Tumor Type among the Mayak Nuclear Workers <u>Labutina, EV</u> ; Kuznetsova, IS	P01.56
The Acute Myocardial Infarction Morbidity Among Siberian Group Of Chemical Enterprises Personnel And Population Living In A Zone Of Its Located Litvinenko, TM; Semenova, YuV; Òàkhauov, RM; Kalinkin, DE; Efimova, EV; <u>Kàrpov, AB</u>	P01.58













At L	sible Source Of Uncertainty In Radon Epidemiological Studies ow Radon Concentrations gnoni, M	P01.59
Chi <u>Ma</u>	roid Cancer Incidence due to Technogenic Exposure in Idhood r <u>tinenko, IA;</u> Sokolnikov, ME; Sannikova, LA; hykh, TV; Koshurnikova, NA	P01.60
Pov	hohort Study on Low Dose Exposure and Mortality in Nuclear ver Workers in Germany rzenich, H; Fehringer, F; Hammer, G; Tröltzsch, K; Blettner, M	P01.61
Suf Acc	ially-Psychophysiological Estimation of a State of Health fered from Heavy Acute Irradiation in Failure Of Chernobyl ident tlyaeva, N; <u>Bushmanov, A</u>	P01.62
Ind	time Radiation Mortality Risk from Lung Cancer. Direct and irect Estimates of Nonlinear Dose Trend <u>esnyuk, VF</u> ; Sokolnikov, ME	P01.63
Vici	ert and Prognostic Assessments of the Public Health in the nity of the NPP <u>oyan, IM</u> ; Lyaginskaya, AM; Romanov, VV; Ermalitskiy, AP	P01.64
Irra	liation Risk Assessment, Taking into Account the effect of diation on all Causes of Death <u>ovich, VA</u> ; Gubin, AT	P01.65
Irra	liation Risk Assessment, Taking into Account the Effect of diation on all Causes of Death <u>ovich, VA</u> ; Gubin, AT	P01.66
	.CY : The French cohort of uranium cycle workers <u>nson, E</u> ; Guseva Canu, I; Acker, A; Laurier, D	P01.67
	d Cancer Mortality in Mayak Workers Cohort <u>olnikov, ME</u> ; Preston, DL; Okatenko, PV; Koshurnikova, NA	P01.68
Che Tak KM EO;	jional Medico-Dosimetric Register of Siberian Group of emical Enterprises Personnel <u>hauov, RM;</u> Karpov, AB; Dolgopolov, YuV; Izmestjev, ; Litvyakov, NV; Kalinkin, DE; Kubat, II; Vasilyeva, Semenova, YuV; Zerenkov, AG; Litvinenko, TM; noylova, YuA; Shiryaeva, IV; Kostrikina, EV	P01.69
of P	conceptional Exposure and Cancer Risk Mortality in Children 'A «MAYAK» Workers <u>nov, VI</u> ; Kabirova , NR; Okatenko, PV	P01.70
Jad	demiological Study Of Health Status Of Population Around A ugoda Uranium Mines In India <u>kur, HP;</u> Sapra, BK	P01.71
Sm	cfrom Occupational and Environmental Radon and Role of oking nasek, L	P01.72
Exp Tsai	icer Risk Estimate by Rate of Cancer Mortality for In-utero iosed Individuals r <u>eva, JV;</u> Schonfeld, SJ; Preston, DL; Sokolnikov, : Okatenko, PV; Koshurnikova, NA	P01.73

Monitoring of Possible Health Effects in the Vicinity of Nuclear Sites in Belgium: Is There an Increased Incidence of Childhood Leukaemia?	P01.75
Bollaerts, K; <u>Fierens, S</u> ; Simons, K; Francart, J; Poffijn, A;	
Sonck, M; Van Bladel, L; Geraets, D; Gosselin, P; Van	
Oyen, H; Van Eycken, L; Van Nieuwenhuyse, A	
Knowledge of and attitude to nuclear power among residents	P01.76
around Tianwan Nuclear power plant in Jiangsu of China	
Yu, Ning le; Zhang, Yimei; Wang, Jin; Cao, Xingjiang; Cao,	
Xingjiang; Fan, Xiangyong; Xu, Xiaosan; Xu, Xiaosan; <u>Wang, Furu</u>	
Modification of Innate Immunity in Individuals with Late	P01.77
Radiation-Induced Neutropenia Using Hemopoietic Cells of	
Fetal Liver	
Akleyev, AA; Dolgushin, II; Dimov, GP	
Radiological Health Risk from Soil, Well Water and Borehole to	P01.78
the Inhabitants of Some Cities across Ondo and Ekiti States in	
Nigeria	
Arogunjo, AM; Ogunware, AE	
Excess Lethal Cancer For the Total Population of Sabzvar	P01.79
City in Iran Arising From Five Common Conventional X-ray	
Examinations Pahrayri Taggi MT. Zarghani H	
Bahreyni Toossi, MT; Zarghani, H	
The Offspring Of Liquidators Of Accident On Chernobyl Atomic	P01.80
Power Station: Effects Of Complex Confounding And Stress Non- Radiation Factors	
Bushmanov, AY; Biryukov, AP; Zhovtilova, EG; Koterov, AN	
Stress-Test of the Two-Fold Increase of Radon Risk Factor in	DO1 01
dwellings	P01.81
Bochud, FO; Laedermann, JP; Kropat, G;	
Bailat, CJ; Murith, C; Baechler, S	
The Social-Psycological Status Of The Population Residing In The	P01.82
Contaminated Territories Of The Urals Region	
Burtovaya, EY; Belova, MV; Akleyev, AV	
Changes In Immunological Indicators In The Peripheral Bloods of	P01.83
Three Accidently-exposed Persons	
Chi, C; Tian, R; Liu, HF; Wei, JP; Wang, HY; Guo, JP; Guo, FL; Li, SF	
Severe Injuries Induced By Occupational Exposure In	P01.84
Interventional Radiology	
Selakovic-Micunovic, V; <u>Durovic, B</u> ; Vukmirovic, Dj	
The Prevalence of Thyroid Nodules in Radiographers	P01.85
Elzaki, Amin; Lawz, Omer; Osman , Hamid	
Let Calculations for Low Energy Diagnostic X–Rays	P01.86
Fonseca-Rodrigues, SSO; Drexler, GG; deAlmeida, CE	
The Late Consequences and Outcomes of Acute Radiation	P01.87
Syndrome	
Galstyan, IA; Nadezhina, NM; Suvorova,	
· · · · · · · · · · · · · · · · · · ·	
LA; Shalyapina, AV; Nugis, VY	
LA; Shalyapina, AV; Nugis, VY Radiological Assessments of the Public: The Challenge of	P01.88
LA; Shalyapina, AV; Nugis, VY Radiological Assessments of the Public: The Challenge of Assessing Changes to the Critical Group at Sellafield	P01.88
LA; Shalyapina, AV; Nugis, VY Radiological Assessments of the Public: The Challenge of Assessing Changes to the Critical Group at Sellafield Leonard, P	
LA; Shalyapina, AV; Nugis, VY Radiological Assessments of the Public: The Challenge of Assessing Changes to the Critical Group at Sellafield	P01.88













Comparison of Methods of Estimation of Lifetime Cancer Risk Due to Chronic Exposure to Transuranics McMillan, KL; Kaye, WR; Kearfott, KJ	P01.90
Risk of Lens Opacification in the Exposed Techa River Population <u>Mikryukova, LD</u> ; Akleev, AV	P01.91
Damaged Lymphocytes and Cancer Risk in Medical Nuclear Workers <u>Milacic, S</u> ; Djokovic, J; Milacic, M; Simic, J; Jovicic, D	P01.92
Radioactive Decay Series in Drinking Water Sources Of Iran <u>Mohammadi, S</u>	P01.93
RBE of Radon: An <i>In Vitro</i> Study Using Chromosomal Aberrations As A Biomarker <u>Mohankumar, MN</u> ; Meenakshi, C	P01.94
Use of Effective Dose for Pu Exposure Regulation Standards <u>Okatenko, PV</u> ; Sokolnikov, ME	P01.95
Assessment Of a Priori Threshold Values For Acute And Chronic External Exposures <u>Osovets, SV</u> ; Azizova, TV; Gergenreider, SN	P01.96
Radiation Injury to the Scalp following Neuro-Intervention- A Case Report Pallewatte, A	P01.97
Targeted And Non-Targeted Responses To Occupational Exposure Of Medical Personnel From Radio Therapy <u>Popescu, I A</u> ; Havarneanu, D; Gradinariu, F; Alexandrescu, I	P01.98
Karyo Pathologic Change of the Thyrocytes in Chernobyl Affected Children Rozhko, A; Nadyrov, E; Masyakin, VB; Vlasova, NG; Kravtsov, VY	P01.99
Immune Status Of the Occupationally Exposed MAYAK Workers Rybkina, VL; <u>Azizova, TV</u> ; Meineke, V; Teplyakova, OV; Osovets, SV; Bannikova, MV; Abend, M; Shertan, G	P01.100
Radiation Protection Aspects of New Full-Body Rtg Scanners Sabol , J.; Navrátil, L.	P01.101
A Study of Space Radiation Effects on Microgravity Bone Resorption <u>Sundaresana, A</u> ; Aghara, SK; Sriprisan, SI; Gibson, T	P01.102
Taking Into Account Radiation Induced Circulatory Diseases At Low Doses: What Impact On The Radiation Protection System? <u>Vaillant, L</u> ; Michelet, M; Schneider, T	P01.103
Effects of Low-Dose lonizing Radiation Exposure on Chromosomal Damage and Immune Parameters in Interventional Cardiologists <u>Zakeri, F.</u> ; Haeri, SA; Rajabpour, MR; Honarjoo, M; Ahmadpour, MJ	P01.104
Health Status Assessment Among The Exposed In Utero Offspring Of MAYAK Nuclear Workers Zhuntova, GV; <u>Azizova, TV</u> ; Rusinova, GG; Rybkina, VL; Sotnik, NV; Belyaeva, ZD; Masharova, EI; Chutchikova, TA; Grigorieva, ES; Adamova, GV; Teplyakova, OI; Karpova , VN	P01.105
The Gender Problem in Radiation Protection Persson, L	P01.106
Radiation Exposure During Video-Urodynamics in Women <u>Phillips, J</u> ; Giarenis, I; Mastoroudes, H; Robinson, D; Lewis, C; Cardozo, L	P01.107

Topic: Measurements and Dosimetry	
Date: Monday 14 and Tuesday 15 May 2012	
Validation of Linac Bunker Shielding Calculations	P02.01
Ronaldson, AJ	
Dose Enhancement in Thin Layers of Skin-Equivalent Material Caused by Photons and Electrons: A Monte-Carlo Study Using MCNP Heide, B; Leone, D	P02.02
Radiometric Characterization of High Background Radiation Areas (HBRA): Some Results from Kenya <u>Angeyo, KH</u> ; Achola, SO; Ntihabose, L; Patel, JP; Mangala, MJ; Mustapha, AO	P02.03
QA/QC programme in use at UPSR/ITN <u>Pereira, Miguel N.</u> ; Saraiva, Manuela; Rangel, Sandra; Santos, Luís; Cardoso, João; Cardoso, João	P02.04
Environmental Monitoring at ITN with Passive Detectors: Comparison of the Symmetrical and Traditional TLD Holders <u>Pereira, MN</u> ; Saraiva, M; Rangel, S; Santos, L; Cardoso, J; Alves, J	P02.05
Detailed Dose Rate Measurements On Ruthenium-106 (Ru106) Eye Plaque Treatment Using An Anthropomorphic Rando Phantom Carroll, MJ; Hughes, R	P02.06
Resolving Ambiguity in Individual Dose Measurement with Dosemeters Calibrated in Terms of Different Quantities Rakesh, RB; Singh, VP; Adtani, MM	P02.07
Investigation into the Variability of Dose Measurement using a Selection of Approved Dosimetry Services Gannon, M; Roberts, G; Keane, D; Avison, M; <u>Packer, S</u>	P02.08
European Population Dose From Radiodiagnostic Procedures - Results Of DOSE DATAMED 2 Bly, R; Järvinen, H; Jahnen, A; Olerud, H; Vassileva, J; Vogiatzi, S	P02.09
An Evaluation of the Equivalent Dose due to Natural Radioactivity in the Soil Around the Consolidated Tin Mine in Bukuru-Jos, Nigeria. <u>Ajayi, IR</u>	P02.10
Investigation of Life Dose of Workers at Different Occupational Groups in Planned Exposure Situations in Iran <u>Jafarizadeh, M</u> ; Kardan, MR; Rastkhah, N; Gheshlaghi, F; Jahanbakhshian, MH; Darabi, M; Gholamalizadeh, Z	P02.11
A Passive Radiation Dosemeter for Environmental Photon and Beta Monitoring Langridge, D	P02.12
TLD Doses Investigation around Container/Vehicle Inspection System <u>Marinkovic, O</u> ; Mirkov, Z; Rafajlovic, S; Prokic, V	P02.13













Reproducibility of 3DCRT Isodose Curves Evaluation Obtained Using Spherical Fricke Xylenol Gel Phantom Cavinato, CC; Souza, BH; Carrete Jr., H; Daros, KAC; Medeiros, RB; Giordani, AJ; <u>Campos, LL</u>	P02.14
Characterization of Optically Stimulated Luminescence Response of LiF:Mg,Ti and microLiF:Mg,Ti Dosimeters for Beta Radiation Matsushima, LC; Veneziani, GR; <u>Campos, LL</u>	P02.15
Assessment of Dose and Optimization of Image Quality in the XVI Cone Beam CT System Khalil, S; Galal, M; <u>O Neill, C</u>	P02.16
Cosmic Radiation Monitoring for RAF Aircrew Cleary, P	P02.17
Applicability of CaSO4:Eu,Ce Detectors in Personal Dosimetry Nunes, MG; Campos, LL	P02.18
Evaluation Of Patient Radiation Dose And Risk Estimation During Orthopedic Surgery Osman, H; Sulieman, A; Sam, AK	P02.19
Experimental Determination of the 3-D Photon Dose Rate Field in the Airspace Above the Chernobyl New Safe Confinement Constructi <u>Chumak, VV;</u> Volosky, VN; Morgun, AA; Shulga, AG; Dmitrienko, AV; Guilcher, N	P02.20
The Process For The Approval Of UK Dosimetry Services Mayor, AM; Nettleton, M; Walker, S; Clark, R; Barnes, N; Stephen, PMS	P02.21
Occupational Radiation Exposures in Medicine and Industry in Poland <u>Budzanowski, M;</u> Kopec, R; Broda, E; Chrul, A; Dzieza, B; Kruk, M; Nowak, A; Pajor, A; Sas-Bieniarz,; Wlodek, K; Szumska, A; Piaskowska, A; Kiszkurno-Mazurek, A	P02.22
OSL of Personal Belongings and In Vivo Materials and their Potential use in Accidental Dosimetry <u>Geber-Bergstrand, T</u> ; Mattsson, S; Rääf, CL	P02.23
Retrospective Dose Estimation of Fetus from Radiological and Nuclear Medicine Examinations <u>Haeri, SA</u> ; Karimi-Diba , J	P02.24
ORAMED Recommendations to Reduce Medical Staff Exposure in Interventional Radiology and Cardiology Carinou, E; Koukorava, C; Struelens, L; Krim, S; Vanhavere, F; Domienik, J; Brodecki, M; Sans Merce, M; Nikodemova, D; Ferrari, P; Gualdrini, G; Clairand, I; Bordy, JM; Donadille, L; Daures, J; Wach, S; <u>Ginjaume, M</u>	P02.25
Efficiency of Radon Remediation in Swedish Houses Rongvist, T	P02.26
Nuclear Power Plant Data Analysis for InLight LDR Model 2 Dosimeter <u>Passmore, C</u> ; Kirr, M	P02.27
Occupational Radiation Exposure Trends In Whole Body Dosimetry - Hp(10) <u>Passmore, C</u> ; Kirr, M; Yoder, C	P02.28
Clinical Application of GAFCHROMIC EBT Film for in Vivo Dose Measurements from Total Body Irradiation Lee, KW; Wu, JK; <u>Chang, SJ</u> ; Jason Cheng, CH	P02.29

Retrospective Dose Assessment In A Radiation Mass Casualty By EPR And OSL In Mobile Phones <u>Trompier, F</u> ; Fattibene, P; Woda, C; Bassinet, C; Bortolin, E; De Angelis, C; Della Monaca, S; Viscomi, D; Wieser, A	P02.30
Development of a Double Dosimetry Algorithm for Assessment of Effective Doses to Staff in Interventional Radiology Lee, J; Jang, H; Yu, HJ; Kim, BM; Noh, S; <u>Kim, J</u>	P02.31
Patient Dose Research in Interventional Radiology Suites in Rio de Janeiro, Brazil <u>Canevaro, LV</u> ; Oliveira da Silva, MW; Dias Rodrigues, BB	P02.32
Radiation Dose To The Eyes Of Readers At The Least Distance Of Distinct Vision For Normal Eye From Nigerian Newspapers <u>Akinloye, MK</u> ; Abodunrin, OP	P02.33
Study Of Different PADC Materials With Regard To Sensitivity And Background Mayer, S; Chiu, TL; Boschung, M	P02.34
Comparison of Passive and Active Neutron Dosemeter Measurements around a Spent Fuel Cask <u>Mayer, S;</u> Boschung, M; Hoedlmoser, H; Buchillier, T; Bailat, C; Bitterli, B	P02.35
Neutron dosimetry around GUINEVERE <u>Vints, VK;</u> Vanhavere, VF; Lelie, LS; Cauwels, CV	P02.36
Analysis of Photon Energy Distribution at the Working Places in Nuclear Power Plants and Application to Lead Vest Shielding Kim, JJ; Lee, BI; Lim, YK	P02.37
Personal Dosimetry Management A Nuclear Industry Good Practice Guide Collison, R; <u>Barnes, M</u> ; Corns, A; Ridgley, A; Wilson, Christine; West, D; Wilkins, G; Bradshaw, J; Hales, L; Stock, P; Sanders, S; Morris, S	P02.38
Preliminary Study of Dose Estimation Using Fingernail/EPR and OSL Method <u>Choi, H</u> ; Byeongryong, P; II nam, H; Byungill, L; Youngski, L	P02.39
Dose Conversion Coefficients for Pediatric CT Body Procedures based on Specific Sizes: Optimizing Radiation Protection of Saudi Children Al-Haj, A; Lobriguito, A	P02.40
Risk of Radiation Exposure of the Lens of the Eye for Members of the Public <u>Chevallier, MA</u> ; Villagrasa, C; Clairand, I; Rannou, A	P02.41
Retrospective Dose Reconstruction Using Household Salt Ekendahl, D; <u>Súkupová, L</u> ; Judas, L	P02.42
Application of <i>in-situ</i> gamma-ray spectrometry to assess the concentrations of 40K, 238U and 232Th and mean annual effective dose rate levels in the several United Arab Emirates cities. Elmehd, HM; Gaffar, A; Alawadhi, HM	P02.43
Assessment of Occupational Dose Records in a Radiopharmaceutical Facility Sanches, MP; Carneiro , JCGG; Rodrigues, DL	P02.44
Trends in Occupational Exposure at Different Practices in a Nuclear Facility <u>Carneiro , JCGG</u> ; Sanches, MP; Rodrigues, DL; Pecequilo, BRS	P02.45













Estimation of Whole Body Effective Dose in the Cardiac Catheter Laboratory: An Intercomparison of Currently Recommended Monitoring Strategies Hughes , DW; Moores , Dr BM; Abell, CF	P02.46
Study of Radon Exhalation Rate from Soil and Rock Samples and Gamma Exposure rate in Chamaraja Nagar District, India <u>Chandrashekara, MS</u> ; Rajesh, BM; Nagaraju, KM; Paramesh, L	P02.47
Population Doses from Medical Diagnostic X-ray Exposure in Belgium Clarijs, T; Biernaux, M	P02.48
A Discussion on the Number of Age-specific Phantoms Practically Needed for External Exposure to Gamma rays <u>Chen, Jing</u>	P02.49
CT Patient Dose Monitoring Using Radiochromic Dosimeters Nelson, K; Pooley, R; Morin, R	P02.50
Patient Dose Assessments in Diagnostic Radiology Employing Electronic Examination Records Charnock, P; Wilde, R; <u>Moores, BM</u>	P02.51
Occupational Dosimetry During Intra-Procedure Placement And Removal Of Ru106 Brachytherapy Sources For The Treatment Of Choroidal Melanoma <u>Hufton, IS</u> ; Carroll, MJ	P02.52
Type Testing Of A Harshaw™ Ext-Rad Extremity Dosemeter With PTFE Filter For Measuring Dose To The Lens Of The Eye In Terms Of Hp(3) Baker, ST; Gibbens, NJ; Gilvin, PJ	P02.53
Patient Organ Dose From CT Scan Examinations In Elven State Owned Hospitals Of Khorasan Province-Iran <u>Bahreyni Toossi, MT</u> ; Esmaili, S	P02.54
Enhanced Local Radiation Injury from Encapsulated Sources <u>Waller, EJ</u> ; Cleary, JP; Goans, RE	P02.55
Criticality Accident Dosimetry: Harwell experiences with a Criticality Accident Dosimetry User Group Gallacher, G; Roberts, G; Spencer, D	P02.56
In situ Measurement of Outdoor Gamma Radiation Level in Redemption Camp, Ogun State, Nigeria <u>Adesiji, NE</u> ; Toluwalase, OO	P02.57
Dose Measurements of a Dental CBCT in Comparison with a 4 row MSCT and a Panoramic Device. <u>Copty, A</u> ; Rabineg, G; Schöchtner, H; Gahleitner, A	P02.58
Exposure Measurements on Portable X-Ray Fluorescence Spectrometers <u>Ludwig, T</u> ; Börnsen, F; Höwekenmeier, D; Reinhardt, E	P02.59
Dose Estimation of the Radiation Workers in the Cyclotron and PET/CT Center Zhang, W; Yu, X; Li, S	P02.60
Establishment of National Dose Reference Levels (DRLs) for Dental Radiology Practices at the UAE <u>Alsuwaidi, JS</u> ; Saleh, NM; AlMoosawi, IS; Janaczek, J; Al Kaabi, F; Al Ameri, AS; Booz, SM; AlShamsi, WM	P02.61

Estimating the Doses for the Workers of a PET Radiopharmaceutical Production Facility <u>Lacerda, MAS</u> ; Tavares, JCF; Reis, LCA	P02.62
Estimation of Finger Doses Resulting from Laboratory Use of Beta Emitting Radionuclides <u>Watt, MJ</u> : McCallum, SJ; Wright, J	P02.63
Estimating the Effective Dose Equivalent During Transport Radioactive Material Using the Two Dosimeter Approach <u>Alghamdi, AS</u>	P02.64
Evaluation of Photoneutron Activation and Radiological Impact Induced from a Medical Linear Accelerator Kim, JK; Jung, DH; Yang, KM; Kang, SS; <u>Ju, MS</u> ; Kim, J	P02.65
Estimation of Effective and Equivalent Dose Rates for Submersion in a Semi-Infinite Radioactive Cloud based on ICRP 107 and 110 Yoo, SJ; Jang, HK; Lee, JK; <u>Noh, SW</u> ; Jeong, KH; Cho, G	P02.66
A Dosimetric Reconstruction Simulation Code Based On Geant4 and Voxel Phantom for Radiological External Photon Exposure Accident Zhao, Y; Liu, L; Pan, H; Chen, B; Cao, Q	P02.67
A Study on the Annual Doses Received by the Workers of some Medical Practices Yousuf, EHE; Attom, AM; Alkhawad, SI; Suliman, II	P02.68
A Bayesian Analysis of Uncertainties on Lung Doses Resulting from Occupational Exposures to Uranium <u>Puncher, M;</u> Birchall, A; Bull, RK	P02.69
Study of Dose Variation in Bladder and Rectum due to Positional Variation of Applicator in HDR Intracavitory Brachytherapy. <u>Adhikari, MP</u> ; Chaurasia, PP; Jha , AK	P02.70
Radioactivity of Bottled Drinking Water and Consequent Dose Exposure to Consumers in Ondo State. Nigeria. <u>Ajayi, OS</u> ; Akanle, AA	P02.71
Practical Recommendations to Occupational Health Services of Nuclear Facilities for Monitoring of Internal Exposure to Radionuclides Blanchin, N; Gonin, M; Quesne, B; Agrinier, AL; Bérard, P; Blanchardon, E; Bourgaud, L; Challeton-de Vathaire, C; Franck, D; Fottorino, R; Fritsch, P	P02.72
Measurements of Uranium Radionuclides in Urine Samples and Internal Dose Assessments for the Personnel of Uranium-Mining Industry in Ukraine Bonchuk, Y; Likhtarov, I; Tsygankov, N	P02.73
Application of Radiotherapeutic Fixation Tools to Achieve Patient Setup Reproducibility during in vivo Gamma Spectrometry Investigation Marmazeev, IV; Korzinkin, MB; Yatsenko, VN; Borisov, NM	P02.74
A Bayesian Method for Identifying Occupational Intakes for Uranium Workers Burt, G; Puncher, M	P02.75
Dose Assessment Due to Inhalation of Plutonium Nanoparticles <u>Cash, L</u> ; Miller, G; Bertelli, L	P02.76













Dosimetry Of Natural Uranium Exposure By Integrating Alimentary Uranium Contribution To Bioassay Measurements <u>Davesne, E</u> ; Blanchin, N; Chojnacki, E; Touri, L; Ruffin, M; Blanchardon, E; Franck, D	P02.77
A Comparison of True Alpha Activities in Air Filter Samples with Values Obtained from Radioactivity-in-air Monitors <u>Dean, JCJ</u> ; Garcia Miranda, M; Burgess, PH	P02.78
Estimated Thyroid Doses for Cohort Members of Epidemiological Study of Thyroid Cancer among Belarusian Children Exposed after the Chernobyl Accident <u>Drozdovitch, V;</u> Minenko, V; Gavrilin, Y; Khrouch, V; Khrutchinsky, A; Kukhta, T; Kutsen, S; Leshcheva, S; Luckyanov, N; Shinkarev, S; Tretyakevich, S; Trofimik, S; Voillequé, P; Bouville, A	P02.79
Thyroid Doses due to lodine-131 Intakes among Chernobyl Clean-up Workers <u>Drozdovitch, V;</u> Luckyanov, N; Bakhanova, E; Chumak, V; Kryuchkov, V; Bouville, A	P02.80
Biokinetic Models for Pregnant and Lactating Woman: Adaptation of ICRP Models for Epidemiological Studies of Exposed Southern Urals Populations. Fell, TP; Shagina, NB; Tolstykh, El; Smith, TJ; Harrison, JD; Degteva, MO	P02.81
Validation of the Monte Carlo Simulation of HPGe Detector Using Point Like Source and the Homemade Emma Phantom Fonseca, TCF; Lebacq, AL; Mihailescu, C; Vanhavere, F; Bogaerts, R	P02.82
Uranium & Dosimetry in Aquatic Organisms: Which Isotopes & Descendants to Consider? <u>Frelon, S</u> ; Simon, O; Cagnat, X; Gurriaran, R; Beaugelin, K; Gilbin, R	P02.83
Dose Estimation Method of the Public after the Reactor Severe Accidents in Fukushima <u>Fujimichi, YF</u> ; Tani, KT; Kosako, TK	P02.84
GuiAR: A New Tool for Implementation IDEAS Guidelines Gossio, S; Rojo, A; Gomez Parada, I	P02.85
Inhalation, Intravenous and Wound Exposure to Am-241: A Comparison of Unperturbed Biokinetics Weber, WM; Doyle-Eisele, ML; <u>Guilmette, RA</u>	P02.86
Determination of Actinides in Excreta by Alpha Spectrometry: Method Validation and Uncertainty Estimation Hernandez, C; Sierra, I; Benito, P; Lopez, C; Navarro, T	P02.87
Measurement of Urine Radioactivites for the Internal Exposure of the Workers in the Hospitals Yeom, YS; Hwang, YM; <u>Park, TJ</u> ; Lim, KJ; Choi, MS; Hong, IS	P02.88
Air Sampling Measurement of a Working Condition for the Internal Exposure of the Workers in the Hospitals Hwang, YM; Yeom, YS; Park, TJ; Lim, KJ; Choi, MS; <u>Hong. IS</u> ; Kim, GS	P02.89
Estimated Average Annual Exposure to Background Radiation inside the Hospital and Health Centers of Erbil city and its impact $\underline{\sf lsmail},\underline{\sf A}$	P02.90
Predictive Model of Aerosol Transport and Deposition. Application and Validation to the PWR Reactor Building <u>Mohand-Kaci, H;</u> Ricciardi, L; Jahan, S; Lestang, M	P02.91

Radiation Dose Assessment of Consumer Products Containing Tritium <u>Cho, DH;</u> Han, SE; Lim, GS; Kim, KP	P02.92
Evaluation of Internal Exposure of Nuclear Medicine Staff Working with Radioiodine and Technetium Krajewska, G; Krajewski, P	P02.93
Radionuclides Incorporated by Inhabitants of Surrounding Brazilian Uranium Mines Guimarães, VS; Brazil, IMM; Campos, SS; Attie, MRP; Gennari, RF; <u>Souza, SO</u>	P02.94
The Assessment of Internal Doses for the Korean Nuclear Medicine Workers based on the Thyroid Bioassay Measurement of I-131 Lee, JJ; Kim, BH; Jeong, KH; Lee, SH; Lim, KJ	P02.95
Effect of Change of Biokinetic Models on Interpretation of Bioassay Data <u>Noh, SW;</u> Kim, BM; RYU, HJ; Kim, JI; Lee, JK	P02.96
Study of the Influence of Radionuclide Biokinetics Distribution in Human Body on the Efficiency Response of Lung Counters Liu, L; Cao, Q; Zhao, Y; Wei, X; Xiao, Y; Xiong, W; Pan, H; Chen, B; Li, J	P02.97
Element Transfer from Intake to Excretion in Human Body of Chinese adult men Wu, Q; <u>Liu, Q</u> ; Fan, T; Zhu, H	P02.98
Eurados Network on Internal Dosimetry LOPEZ, MA; Balashazy, I; Berard, P; Blanchardon, E; Breustedt, B; Broggio, D; Castellani, CM; Etherington, G; Franck, D; Fritz, P; Giussani, A; Hurtgen, C; Kramer, GH; March, JW; Nosske, D; Puncher, M; Schimmelpfeng, J; Malatova, I; Oeh, U; Rojo, A; Telles, P; Tolmachev,; Vrba, T	P02.99
Quantitative Plutonium Microdistribution In Liver Of MAYAK Radiochemical Plant Workers <u>Lyovkina, YV;</u> Belosokhov, MV; Aladova, EE; Kiselyova, OI; Romanov, SA	P02.100
Uranium Concentrations in Natural Water Around Mysore City, India <u>Rajesh, BM;</u> Paramesh, L; Chandrashekara, MS; Paulas, AR; Chandrashekara, A; Nagaraja, P	P02.101
Content of Uranium in Urine of Uranium Miners in Relation to Personal Dosimetry of Long Lived Alpha Radionuclides. <u>Malátová, I</u> ; Beèková, V; Tomášek, L; Hùlka, J; Marušiaková, M	P02.102
Assessment, using Monte Carlo and Biokinetic Models, of the Absorbed Dose in the Thyroid, as a Critical Organ, in Scintigraphies with I-123 and Tc-99m Martins, B; Bento, J; Alves, F; Colarinha, P; Teixeira, N; Teles, P; Vaz, P	P02.103
Controlling Radiological and Chemical Intakes of Uranium in the Workplace: Applications of Biokinetic Modeling and Occupational Monitoring Data <u>Meck, RA</u> ; Leggett, RW; Eckerman, KF; McGinn, CW	P02.104
WBC IRSN 2011 Intercomparison: Participation Of The ISPRA Joint Research Centre WBC Laboratory Minchillo, G; Cirello, V; Zarza Perez, I; <u>Giuffrida, D</u> ; Osimani, C	P02.105













Implementation of an Intercomparison Exercice according to ISO/IEC 28218 in the Internal Dosimetry Services of Spanish Nuclear Power Plants <u>Navarro, JF</u> ; Pérez, B; López, A; Navarro, T; Amor, I; Tormo, L	P02.106
 Results of Internal Monitoring for Nuclear Medicine Workers in the City of Medellin, Colombia Ocampo, JC; Puerta, JA; Morales, J; Marin, OA; Martinez, P	P02.107
New Dose Factors for Ingestion of 1311 <u>Ocampo, JC</u> ; Puerta, JA; Morales, J	P02.108
Dose Coefficients For Incorporation Of Lead, Bismuth And Polonium <u>Peña, V</u> ; Puerta, JA; Morales, JJ	P02.109
Human Hair as Biomonitor of Chronic Intake of Uranium: Studies at a Nuclear Fuel Fabrication Plant. <u>Pettersson, HBL</u> ; Mellander, H; Thorsen, U; Israelsson, A	P02.110
Determination of urine biological exposure index for the monitoring of uranium chemical toxicity <u>Pie, TC</u> ; Beeslaar, FJL	P02.111
Simulation of Auger Electron Emission Spectra for 99mTc and 1231 by Validated Monte Carlo Codes <u>Pomplun, E</u> ; Kümmerle, EA	P02.112
Internal Dose Assessment of 177Lu-DOTA-SP for Quantification of Arginine Renal Protection Effect <u>Puerta, N;</u> Rojo, A; Crudo, JL; Zapata, A; Nevares, N; López Bularte, A; Pérez, J; Zaretzky, A	P02.113
Internal Dose Assessment of 177Lu-DOTA-SP for Quantification of Arginine Renal Protection Effect <u>Puerta, N;</u> Rojo, A; Crudo, J; Zapata, A; Nevares, N; Lopez Bularte, A; Perez, J; Zaretzky, A	P02.114
Ingestion dose coefficient update and uncertainty assessment in biokinetic and dosimetric models of α -, β -, $\alpha\gamma$ - and $\beta\gamma$ -emitter Saïdou, -; Baechler, S; Patrick, AB; Blanchard, DG	P02.115
Characteristics of a Thyroid Spectrometer Based on a LaBr3(Ce) Detector Saizu, MA	P02.116
A Model of Plutonium Metabolism for Reconstruction of Doses for the Mayak Workers Based on the Autopsy Data Schadilov, AE; Vostrotin, VV; Vvedensky, VE	P02.117
Carbon-14 Dosimetry and the Latest Evidence for the Biological Half Life of Carbon-14 Radiolabelled Compounds Shepley, J; <u>Murdock, C</u> ; Bull, R	P02.118
Biokmod Application for the Evaluation of Different Types of Bioassays <u>Sierra, S</u> ; Sanchez, G; Ortiz, D; Perez, A	P02.119
Therapeutic Intervention Decision for Tritium Uptake within Limit <u>Singh, VP</u> ; Managanvi, SS; Badiger, NM	P02.120
The Experimental Basis for Revising Particle Clearance from the Extra-Thoracic and Bronchial Regions in the Revised ICRP Human Respiratory Tract Model Smith, JRH; Youngman, MJ; Shutt, AL; Etherington, G; Bailey, MR	P02.121

The Effect of Radiological Protection Policies and Work Programme on Radiological Measurements at the Dounreay Site. Spencer, D; White, S; Watkin, T Pregnancy and Lactation as a Factor of Increased Accumulation of Bone-seeking Radionuclides in Maternal Body Tolstykh, El; Shagina, NB; Degteva, MO Estimates Of Effective Doses Among Czech Uranium Miners Tomasek, L; Hulka, J; Rulik, P; Malatova, I; Beckova, V; Mala, H Effect of Respiratory Motion on Counting Efficiency Using a 4D NURBS-Based Cardiac-Torso (NcAT) Phantom Tremblay, M; Kramer, GH; Capello, K; Segars, PW HOTDOSE: A Software Package to Calculate Dose Probability Distributions for Hot Particle Inhalation Vargas, A Natural Radiation Exposure from Indoor Radon and Thoron in China Wu, Q; Kong, X; Liu, G; Lou, J; Zhuo, W Dose Coefficients For Beta Decay, By Incorporation By Ingestion Using The "Human Alimentary Tract Model", According To ICRP 100. Zutta, JM; Puerta, JM NATO Biodosimetry Exercise - Inter-Assay Comparison - Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard, N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka, U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler, U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M; Vral, A; Zenhausern, F; Meineke, V; Little, MP; Beinke, C Developing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A.; Arladyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad; Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi, T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach fo		
Pregnancy and Lactation as a Factor of Increased Accumulation of Bone-seeking Radionuclides in Maternal Body Tolstykh, El; Shagina, NB; Degteva, MO Estimates Of Effective Doses Among Czech Uranium Miners Tomasek, L; Hulka, J; Rulik, P; Malatova, I; Beckova, V; Mala, H Effect of Respiratory Motion on Counting Efficiency Using a 4D NURBS-Based Cardiac-Torso (NCAT) Phantom Tremblay, M; Kramer, GH; Capello, K; Segars, PW HOTDOSE: A Software Package to Calculate Dose Probability Distributions for Hot Particle Inhalation Vargas, A Natural Radiation Exposure from Indoor Radon and Thoron in China Wu, Q; Kong , X; Liu , G; Lou , J; Zhuo, W Dose Coefficients For Beta Decay, By Incorporation By Ingestion Using The "Human Alimentary Tract Model", According To ICRP 100. Zutta, JM; Puerta, JM NATO Biodosimetry Exercise - Inter-Assay Comparison - Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard, N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka, U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler, U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M; Vral, A; Zenhausern , F; Meineke, V; Little, MP; Beinke, C Developing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A; Al-Hadyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad; Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi, T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates DiGiorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetr	Programme on Radiological Measurements at the Dounreay Site.	P02.122
Tomasek, L; Hulka, J; Rulik, P; Malatova, I; Beckova, V; Mala, H Effect of Respiratory Motion on Counting Efficiency Using a 4D NURBS-Based Cardiac-Torso (NCAT) Phantom Tremblay, M; Kramer, GH; Capello, K; Segars, PW HOTDOSE: A Software Package to Calculate Dose Probability Distributions for Hot Particle Inhalation Vargas, A Natural Radiation Exposure from Indoor Radon and Thoron in China Wu, Q; Kong , X; Liu , G; Lou , J; Zhuo, W Dose Coefficients For Beta Decay, By Incorporation By Ingestion Using The "Human Alimentary Tract Model", According To ICRP 100. Zutta, JM; Puerta, JM NATO Biodosimetry Exercise - Inter-Assay Comparison - Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard , N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka , U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler , U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M; Vral, A; Zenhausern , F; Meineke, V; Little, MP; Beinke, C Developing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A; Al-Hadyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad, Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And P02.131 Ph) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi , T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates DiGiorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some Changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modellin	Pregnancy and Lactation as a Factor of Increased Accumulation of Bone-seeking Radionuclides in Maternal Body	P02.123
NURBS-Based Cardiac-Torso (NCAT) Phantom Tremblay, M; Kramer, GH; Capello, K; Segars, PW HOTDOSE: A Software Package to Calculate Dose Probability Distributions for Hot Particle Inhalation Yargas, A Natural Radiation Exposure from Indoor Radon and Thoron in China Wu, Q; Kong, X; Liu, G; Lou, J; Zhuo, W Dose Coefficients For Beta Decay, By Incorporation By Ingestion Using The "Human Alimentary Tract Model", According To ICRP 100. Zutta, JM; Puerta, JM NATO Biodosimetry Exercise - Inter-Assay Comparison - Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard, N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka, U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler, U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M; Vral, A; Zenhausern, F; Meineke, V; Little, MP; Beinke, C Developing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A.; Al-Hadyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad; Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi, T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some Po2.135 changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Po2.136 Gremy, OG; Fritsch, PE MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PE; Breusted		P02.124
Distributions for Hot Particle Inhalation Vargas, A Natural Radiation Exposure from Indoor Radon and Thoron in China Wu, Q; Kong, X; Liu, G; Lou, J; Zhuo, W Dose Coefficients For Beta Decay, By Incorporation By Ingestion Using The "Human Alimentary Tract Model", According To ICRP 100. Zutta, JM; Puerta, JM NATO Biodosimetry Exercise - Inter-Assay Comparison - Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard, N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka, U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler, U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M; Vral, A; Zenhausern, F; Meineke, V; Little, MP; Beinke, C Developing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A; Al-Hadyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad; Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And P02.131 Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi, T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio. M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	NURBS-Based Cardiac-Torso (NCAT) Phantom	P02.125
China Wu, Q; Kong , X; Liu , G; Lou , J; Zhuo, W Dose Coefficients For Beta Decay, By Incorporation By Ingestion Using The "Human Alimentary Tract Model", According To ICRP 100. Zutta, JM; Puerta, JM NATO Biodosimetry Exercise - Inter-Assay Comparison - Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard , N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka , U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler , U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M; Vral, A; Zenhausern , F; Meineke, V; Little, MP; Beinke, C Developing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A.; Al-Hadyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad; Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi , T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, G; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Gremy, OG; Fritsch, PF MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	Distributions for Hot Particle Inhalation	P01.126
Dose Coefficients For Beta Decay, By Incorporation By Ingestion Using The "Human Alimentary Tract Model", According To ICRP 100. Zutta, JM; Puerta, JM NATO Biodosimetry Exercise - Inter-Assay Comparison - Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard , N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka , U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler , U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M; Vral, A; Zenhausern , F; Meineke, V; Little, MP; Beinke, C Developing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A.; Al-Hadyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad; Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi , T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Gremy, OG; Fritsch, PF MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	China	P02.127
Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard , N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka , U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler , U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M; Vral, A; Zenhausern , F; Meineke, V; Little, MP; Beinke, C Developing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A.; Al-Hadyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad; Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And P02.131 Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi , T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Gremy, OG; Fritsch, PF MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	Dose Coefficients For Beta Decay, By Incorporation By Ingestion Using The "Human Alimentary Tract Model", According To ICRP 100.	P02.128
of Radiation Overexposure in Saudi Arabia Al-Zahrany, Awad A.; Al-Hadyan, Khaled; Venturina, L. Aubrey; Nobah, Ahmad; Aldelaijan, Saad; Moftah, Belal; Alsbeih, Ghazi A. The Uptake Kinetics Of Ba-133 And Heavy Metals (Co, Cr, Cd And P02.131 Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi, T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside P02.133 Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Gremy, OG; Fritsch, PF MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	Abend, M; Rothkamm, K; Romm, H; Badie, C; Balagurunathan, Y; Barnard, S; Bernard, N; Boulay-Greene, HM; Brengues, M; De Amicis, A; De Sanctis, S; Greither, R; Hérodin, F; Jones, A; Knie, T; Kabacik, S; Kulka, U; Lista, F; Martigne, P; Missel, A; Moquet, J; Oestreicher, U; Peinnequin, A; Poyot, T; Roessler, U; Scherthan, H; Terbrueggen, B; Thierens, H; Valente, M;	P02.129
Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi, T; Ramzi, B; Cherkaoui El Moursli, R Strategy for Validation of External Doses for Techa Riverside Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Gremy, OG; Fritsch, PF MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	of Radiation Overexposure in Saudi Arabia <u>Al-Zahrany, Awad A.</u> ; Al-Hadyan, Khaled; Venturina, L. Aubrey;	P02.130
Residents Degteva, MO; Shishkina, EA; Vozilova, AV; Anspaugh, LR Biomedical Evaluation of a Radiological Incident - A Bayesian Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Gremy, OG; Fritsch, PF MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	Pb) In The Gibraltar Strait Marine Waters Dehbi, N; El Mrabet, R; Laissaoui, A; El Khoukhi ,	P02.131
Approach for Presenting Uncertainty on Biological Dose Estimates Di Giorgio, M; Vazquez, M; Radl, A; Taja, MR; Bubniak, RV; Deminge, M; Zaretzky, A Biological Dosimetry for Occupational Overexposure: Some changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Gremy, OG; Fritsch, PF MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	Residents	P02.133
changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L; Seitz, G; Johannes, C; Maznyk, N New Concepts for Modelling Pu/Am Decorporation by DTPA Gremy, OG; Fritsch, PF MADORTools For Managment Of Internan Contamination By Actinides And DTPA Therapy Fritsch, PF; Breustedt, BB; Blanchardon, EB; Blanchin,	Approach for Presenting Uncertainty on Biological Dose Estimates <u>Di Giorgio, M;</u> Vazquez, M; Radl, A; Taja, MR;	P02.134
Gremy, OG; <u>Fritsch, PF</u> MADORTools For Managment Of Internan Contamination By P02.137 Actinides And DTPA Therapy <u>Fritsch, PF</u> ; Breustedt, BB; Blanchardon, EB; Blanchin,	changes in Operation Concept Fehringer, F; Sipko, T; Gaysenuk, L;	P02.135
Actinides And DTPA Therapy <u>Fritsch, PF</u> ; Breustedt, BB; Blanchardon, EB; Blanchin,		P02.136
	Actinides And DTPA Therapy <u>Fritsch, PF</u> ; Breustedt, BB; Blanchardon, EB; Blanchin,	P02.137













Conceptual Structure of Java-oriented Environment for Modeling Biokinetics of Incorporated Radionuclides and Internal Dose Calculations <u>Granovskaya, E</u> ; Kukhta, B; Kukhta, V	P02.138
Microdosimetric Assessment of the Cellular Responses to Low- Dose Exposure Lee, KM; Kim, SR; <u>Kim, EH</u>	P02.139
Time-dependent Gene Expression Analysis in Human Peripheral Blood Lymphocytes for Biodosimetric Applications after Low and High Dose Gamma-Irradiation Knops, K; Boldt, S; Wolkenhauer, O; Kriehuber, R	P02.140
RENEB – Realizing The European Network In Biological Dosimetry Kulka, U; Ainsbury, L; Atkinson, M; Barquinero, J; Barrios, L; Beinke, B; Bognar, G; CuCu, A; Darroudi, F; Fattibene, P; Gil, O; Hadjidekova, V; Haghdoost, S; Herranz, R; Jaworska, A; Lindholm, C; Moertl, S; Montoro, A; Moreno, M; Oestreicher, U; Palitti, F; Pantelias, G; Popescu, J; Romm, H; Rothkamm, K; Sabatier, L; Sommer, S; Testa, A; Thierens, H; Trombier, F; Turai, J; Vaz, P; Voisin, P; Vral, A; Woda, C; Wojcik, A	P02.141
Approaches of the Cytigenetical Dose Evaluation of the Irradiation Nonuniformity Nugis, VYu; Dudochkina, NE; Kozlova, MG	P02.142
Monitoring Of Capillaries In Occupational Exposure As Biological Indicator In Radiation Protection <u>Pennarola, R</u> ; Porzio , G; Pennarola, E; Cavaliere, L; Isgrò, F; Pane, F	P02.143
Nanohybrids composed of quantum dots and enzyme as photocatalysts induced by gamma rays Roh, Changhyun	P02.144
Performance of the automated dicentric and cytokinesis block micronucleus assays in a recent NATO exercise of established biodosimetry methods Romm, H; Barnard, S; Boulay-Greene, H; Darroudi, F; Herodin, F; Martigne, P; Peinnequin, A; Poyot, T; Valente, M; De Sanctis, S; De Amicis, A; Franco, M; Moquet, J; Kulka, U; Lista, F; Oestreicher, U; Rothkamm, K; Thierens, H; Vandersickel, V; Little, MP; Meineke, V; Beinke, C; Abend, M; Vral, A	P02.145
The Probability of Radiation-induced Damage of Macromolecules with Complex Spatial Structure Selyshchev, P	P02.147
Establishment Of A Dose-Response Curve Of 60Co Gamma-Ray Irradiation By Dicentric Chromosome Analysis <u>Suto, Y;</u> Akiyama, M; Hirai, M; Yuki, M; Nakagawa, T; Tominaga, T; Nakayama, F; Suzuki, T; Sugiura, N	P02.148
Validation Method of Biological Dosimetry in an Accreditation Process <u>Voisin, PV;</u> Gregoire, EG; Roch-Lefevre, SRL; Gruel, GG; Martin, CM; Voisin, PV; Roy, LR	P02.149
ESR dosimetry study of workers from Stepnogorsk uranium processing plant, Kazakhstan Zhumadilov, K; Kazymbet, P; Ivannikov, A; Bakhtin, M; Zharlyganova, D; Zhumadilov, Z; Hoshi, M	P02.150

Poster sessions A-B: Area 3	
Type: Poster Session	
Topic: Radiation Protection System Development and Implementation	
Date: Monday 14 and Tuesday 15 May 2012	
Time: 16:00 - 17:00 hours	
Room: Hall 4	
Research On The Radiological Safety Conditions At Different P03. Hospitals In Nepal. <u>Adhikari, Mr</u> ; Jha, Prof.; Montenegro, Dr.	01
Development of the Standard System for Integrated Radiation P03. Management Lee, YJ; Park, BM; Lee, EJ	02
Changing of a Radiological Protection Management System P03. – Impact at the Workface <u>Ferguson, DA</u> ; MacLeod, K	03
Radiation Protection Management in Malaysia P03. Muhd Sarowi, S; Idris, HN; Ahmad, A; Abdul Razalim, FA; Kontol, K; Ali, N; Mishar, M	04
Managing The Workload And Workflow Of A Radiation P03. Protection Advisor In Medicine Connolly, PA; Moores, Dr BM	05
Safety and Security of Radiation Sources in North Africa and P03. Middle East Gomaa, M	06
Radiation Safety Management System At Your Finger Tips With P03.1 Excel Sowden-Plunkett, L	07
U.S Radiation Protection Best Practices P03. Anderson, Ellen; Harris, Willie	08
Investigation of Radiation Protection Observation Data at a Nuclear Facility Cournoyer, ME; Cash, LJ	09
The New Food and Drug Administration of the Republic of the P03. Philippines and Its Role in Radiation Protection Peralta, AP	10
Radon Adsorbed in Activated Charcoal as a Tool for Teaching P03. Radioactivity <u>Al-Azmi, D</u> ; Mustapha, AO	11
Measurements of Ambient Gamma Radiation Levels as Practical P03. Teaching for Physics Students <u>Al-Azmi, D</u> ; Karunakara, N; Mustapha, AO	12
Training of Radiation Protection Experts – 'Nuclear Training P03. Centre' Experience Avadanei, C; Stanescu, G	13
A Novel Swedish Master's Degree Programme for Applied P03. Radiation Protection Rääf, CL; Isaksson, M; Bernhardsson, C	14













Survey of Health Physics Research and Education in the Netherlands Bijwaard, H; Slaper, H; Dekkers, E Bilateral Comparison Of Low Level RP Training And Education Courses – A Tool For Facilitating The Mobility Of RPOS And Radiation Workers Boersma, HE; Vahibruch, J-W; Dongen, OADM; Haagen, JHP; Greuter, MJW Lessons Learnt from Specific Education and Training in Radiation Protection to the Security Forces and Armed Forces in Argentina. Chahab, M; Cateriano, M; Fernández Moreno, S; López Vietri, J; Menossi, S Comprehensive Radiation Safety Training, a Systems Approach for Human Capacity Development Chavez, G; Fitch, S; Gomez, L; Hasan, A The TRASNUSAFE project: development of training schemes on nuclear safety culture for managers Giot, M; Carlé, B; Coeck, M; Meskens, G; Vermeersch, E; Croüail, P Training schemes for Radiation Protection Expert and Officers, and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; Schmitt-Hannig, A; Fantuzzi, E; van Elsäcker-Degenaar, H; Marco Arboli, M; Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, E; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training-Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AB; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduat		
Bilateral Comparison Of Low Level RPTraining And Education Courses – A Tool For Facilitating The Mobility Of RPOS And Radiation Workers Boersma, HF; Vahlibruch, J-W; Dongen, OADM; Haagen, JHP; Greuter, MJW Lessons Learnt from Specific Education and Training in Radiation Protection to the Security Forces and Armed Forces in Argentina. Chahab, M; Cateriano, M; Fernández Moreno, S; López Vietri, J; Menossi, S Comprehensive Radiation Safety Training, a Systems Approach for Human Capacity Development Chavez, G; Fitch, S; Gomez, L; Hasan, A The TRASNUSAFE project: development of training schemes on nuclear safety culture for managers Giot, M; Carlé, B; Coeck, M; Meskens, G; Vermeersch, E; Croüail, P Training schemes for Radiation Protection Expert and Officers, and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; Schmitt-Hannig, A; Fantuzzi, E; van Elsäcker-Degenaar, H; Marco Arboli, M; Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, E; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AB; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHE; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	Netherlands	P03.15
Courses – A Tool For Facilitating The Mobility Of RPOS And Radiation Workers Boersma, HF; Vahlbruch, J-W; Dongen, OADM; Haagen, JHP; Greuter, MJW Lessons Learnt from Specific Education and Training in Radiation Protection to the Security Forces and Armed Forces in Argentina. Chahab, M; Cateriano, M; Fernández Moreno, S; López Vietri, J; Menossi, S Comprehensive Radiation Safety Training, a Systems Approach for Human Capacity Development Chavez, G; Fitch, S; Gomez, L; Hasan, A The TRASNUSAFE project: development of training schemes on nuclear safety culture for managers Giot, M; Carlé, B; Coeck, M; Meskens, G; Vermeersch, E; Croüail, P Training schemes for Radiation Protection Expert and Officers, and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; Schmitt-Hannig, A; Fantuzzi, E; van Elsäcker-Degenaar, H; Marco Arboli, M; Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, E; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AB; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach		
Lessons Learnt from Specific Education and Training in Radiation Protection to the Security Forces and Armed Forces in Argentina. Chahab, M; Cateriano, M; Fernández Moreno, S; López Vietri, J; Menossi, S Comprehensive Radiation Safety Training, a Systems Approach for Human Capacity Development Chavez, G; Fitch, S; Gomez, L; Hasan, A The TRASNUSAFE project: development of training schemes on nuclear safety culture for managers Giot, M; Carlé, B; Coeck, M; Meskens, G; Vermeersch, E; Croüail, P Training schemes for Radiation Protection Expert and Officers, and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; Schmitt-Hannig, A; Fantuzzi, E; van Elsäcker-Degenaar, H; Marco Arboli, M; Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, E; Vermeersch, E; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	Courses – A Tool For Facilitating The Mobility Of RPOS And Radiation Workers <u>Boersma, HF</u> ; Vahlbruch, J-W; Dongen, OADM;	P03.16
Protection to the Security Forces and Armed Forces in Argentina. Chahab, M; Cateriano, M; Fernández Moreno, S; López Vietri, J; Menossi, S Comprehensive Radiation Safety Training, a Systems Approach for Human Capacity Development Chavez, G; Fitch, S; Gomez, L; Hasan, A The TRASNUSAFE project: development of training schemes on nuclear safety culture for managers Giot, M; Carlé, B; Coeck, M; Meskens, G; Vermeersch, F; Croüail, P Training schemes for Radiation Protection Expert and Officers, and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; Schmitt-Hannig, A; Fantuzzi, E; van Elsäcker-Degenaar, H; Marco Arboli, M; Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, E; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, J Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach		DO2 17
for Human Capacity Development Chavez, G; Fitch, S; Gomez, L; Hasan, A The TRASNUSAFE project: development of training schemes on nuclear safety culture for managers Giot, M; Carlé, B; Coeck, M; Meskens, G; Vermeersch, F; Croüail, P Training schemes for Radiation Protection Expert and Officers, and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; Schmitt-Hannig, A; Fantuzzi, E; van Elsäcker-Degenaar, H; Marco Arboli, M; Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, E; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	Protection to the Security Forces and Armed Forces in Argentina. <u>Chahab, M</u> ; Cateriano, M; Fernández	PUS.17
nuclear safety culture for managers Giot, M; Carlé, B; Coeck, M; Meskens, G; Vermeersch, F; Croüail, P Training schemes for Radiation Protection Expert and Officers, and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; Schmitt-Hannig, A; Fantuzzi, E; van Elsäcker-Degenaar, H; Marco Arboli, M; Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, F; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	for Human Capacity Development	P03.18
and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; Schmitt-Hannig, A; Fantuzzi, E; van Elsäcker-Degenaar, H; Marco Arboli, M; Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, F; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AB; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, ES How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	nuclear safety culture for managers	P03.19
Stewart, J; De Regge, P; Vaz, P; Pesnyak, C; Ceclan, M SCK-CEN's Academy for Nuclear Science and Technology: P03.21 Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, F; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection P03.23 Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities P03.25 Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	and accompanying tools, developed within the ENETRAP II project Coeck, M; Livolsi, P; Massiot, P; Möbius, S; <u>Schmitt-Hannig.</u>	P03.20
SCK-CEN's Academy for Nuclear Science and Technology: Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, E; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, F5 How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach		
Contributing to Education and Training in Radiation Protection Coeck, M; Hardeman, E; Vermeersch, F; Meskens, G; Van den Berghe, S; Van den Eynde, G; Ceuterick, D Radiation Dose Training- Awareness Among our Doctors Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach		
Adequate to make Justifiable Referrals to Radiology Department? Shaffaque, S; Dawood, A; Rafaye, A e-IRMER - An e-Learning Package for Radiation Protection Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	Contributing to Education and Training in Radiation Protection Coeck, M; <u>Hardeman, F</u> ; Vermeersch, F; Meskens, G;	P03.21
Training of Health Staff Evans, S; Denman, AR; Goldstone, K; Eve, J The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	Adequate to make Justifiable Referrals to Radiology Department?	P03.22
for Harmonisation in Education and Training for Radiation Protection Professionals Draaisma, FS How To Build A Regulator Edmunds, I Radiation Protection Training Activities Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	Training of Health Staff	P03.23
Edmunds, I Radiation Protection Training Activities P03.26 Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder P03.28 Engagement Approach	The EUTERP Foundation: Towards a European Approach for Harmonisation in Education and Training for Radiation Protection Professionals	P03.24
Gomaa, MA Comparison of the Lowest Level Radiation Protection Courses in Germany and The Netherlands Greuter, MJW; Haagen, JHP; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder P03.28 Engagement Approach		P03.25
Germany and The Netherlands Greuter, MJW; <u>Haagen, JHP</u> ; Van Dongen, OADM; Vahlbruch, JW; Koletzko, G; Schouwenburg, M; Boersma, HF Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach		P03.26
Undergraduate Radiation Protection Training - A Stakeholder P03.28 Engagement Approach	Germany and The Netherlands Greuter, MJW; <u>Haagen, JHP</u> ; Van Dongen, OADM; Vahlbruch,	P03.27
	Undergraduate Radiation Protection Training - A Stakeholder Engagement Approach	P03.28

Radiation Education for High School Students Using Potassium	P03.29
Radiation Sources Kawano, TK	
A Bottom Up Experience: The French Qualified Experts Regional	P03.30
Networks <u>Lefaure, C;</u> Balduyck, S; Barbey, P; Barret, C; Barrey, N; Benque,	
B; Figueira, M; Mozziconacci, JG; Seguin, B; Tourneux, C	
Informatization and Integration of Radiological Protection	P03.31
Optimization Programs	
Levy, DS; Sordi, GMAA	
The European Master's Degree in Radiation Protection (EMRP):	P03.32
The French Implementation Livolsi, P; Balosso, J; Ammerich, M;	
Vidal, JP; Multon, E; Visseaux, H	
Guidance To Radioactive Contamination Measurements In	P03.33
Health And Research Installation	
Macias, MT; Usera, F	D00.04
A New Approach on Regional Training Courses to Avoid Denial Cases of Shipments	P03.34
Mallaupoma, MC	
Social Networking and Radiation Protection	P03.35
Medina Gironzini, E	
Education and Training of the Medical Staff on Radiation	P03.36
Protection	
Milu, C RPO Competency Model for Enhancement of Radiation	P03.37
Protection in Malaysia	PU3.37
Mishar, M	
Certificate of Professional Development in Radiation Protection	P03.38
McKechnie, B; Moseley, T; <u>Heaton, B</u>	
Training on Radioisotopes Techniques and Radioprotection	P03.39
Aspects at the School of Pharmacy and Biochemistry (UBA, Argentina).	
Martin, G; Zubillaga, M; Cremaschi, G; Cricco, G; Cocca, M;	
Goldman, C; Salgueiro, J; Medina, VA; Klecha, A; Bianchin,	
AM; Mohamad, N; Nuñez, M; Leonardi, N; Massari, N;	
Martinel Lamas, D; Gutierrez, A; Ventura, C; Rivera, ES	D02.40
Optimisation of Radiation Protection (ALARA): A Practical Guidebook	P03.40
Economides, S; Gemmill, J; Hardeman, F; Lorenz, B; Nuccetelli, C;	
Risica, S; <u>Schieber, C</u> ; Schmitt-Hannig, A; Vermeersch, F; Wright, A	
Karlsruhe Chart Of Nuclides - Edition 2012	P03.41
Sóti, Z; Magill, J; Dreher, R; Pfennig, G	D02 (5
Developing Curricula for Radiation Protection Officers <u>Stange, KL</u>	P03.42
Structured Intercomparison of Clinical Medical Physicists'	P03.43
Education and Training Frameworks in European, North	. 03.13
American and Australasian countries	
Stefanoyiannis, AP; Christofides, S; Psichis, K; Geoghegan,	
DS; Gerogiannis, I; Round, WH; Geronikola-Trapali, X; Armeniakos, I; Kaplanis, PA; Prentakis, A; Chatziioannou, SN	
Americanos, y mapianis, 174 rentants, 74 Chatenounitod, 314	













Enetrap II: WP5	P03.44
Develop And Apply Mechanisms For The Evaluation Of Training	
Events	
van Elsäcker-Degenaar, IH; Draaisma, FS; Sutmuller, M; Stewart, J;	
Livolsi, P; Fantuzzi, E; Mobius, S; de Regge, PP; Vaz, JP; Ceclan, M	
Training and Education in Radiation Protection at the Nuclear Research and Consultancy Group (NRG), Petten, the Netherlands	P03.45
van Elsäcker-Degenaar, IH; Ruiter, PGR; Buurveld, HA	
Enetrap II: WP5	P03.46
Develop And Apply Mechanisms For The Evaluation Of Training	1 05.40
Material	
van Elsäcker-Degenaar, IH; Draaisma, FS; Sutmuller, M; Livolsi,	
P; Fantuzzi, E; Mobius, S; de Regge, PP; Ceclan, M; Stewart, J	
"Radiophilia": A Tragic Phenomenon in Diagnostic radiology.	P03.47
Abdollahi, H; Teymuri, M	
Problems With the Pregnancy Question	P03.48
Arscott, TC; Lewis, CA	
Actions And Impact Of The Iaea Technical Activities In The Field	P03.49
Of Occupational Radiation Protection In Latin America, Europe,	
Asia And Africa.	
Cruz Suarez, R; Ma, J; Puthanveedu, HP; Czarwinski, R	
Towards Developing a Radiation Protection Culture in Diagnostic Radiology Practice in Nigeria	P03.50
Egbe, NO; Ekpo, EU; Eduwem, DU; Inyang, SO; Azogor, WE	
Inter-knowledge an Innovative Environment for Teaching	P03.51
and Training in Radiation Protection using ENEA ICT: CRI & IES	
Internship Experience	
<u>Fontana, C</u> ; Fontana, F; Cosimi, E; Dawodu, A; Roccaldo, AR	
Radiological Rollback Of Controlled Areas At Sellafield Site – A	P03.52
Step Change In Contamination Control Culture	
<u>Humphries, JK</u>	
Radioprotection Culture at Nuclear Fuel Plant Pitesti Romania	P03.53
<u>Ivana, T;</u> Epure, G	D02.54
Radiological Protection of Patients <i>as part of</i> Safety of Patients: A Healthcare Approach to Safety Culture	P03.54
Larcher, A; Jimenez, P; Montserrat-Capella, D; Perez, MR	
Radiation Protection Culture: The Case of Serbia	P03.55
Popovic, D	. 03.33
Safety Culture - Reflections from the Nordic Nuclear Industry	P03.56
Reiman, T; Rollenhagen, C; Kahlbom, U; Pietikäinen, E	35.50
Radiation Protection Culture in Context	P03.57
Rycraft, HS; Coates, R	
Evaluating Radiation Protection Programs Using the Ten	P03.58
Principles of Radiation Protection	
Strom, DJ	

Poster si	essions A-B: Area 4	
Type:	Poster Session	
Topic:	Stakeholder Engagement and Involvement	
Date:	Monday 14 and Tuesday 15 May 2012	
Time:	16:00 - 17:00 hours	
Room:	Hall 4	
Build A Consen Advisers	gagement – Regulators And The RP Profession sus On Competence Of Radioactive Waste (right, A; Stackhouse, A; Peake, L	P04.01
Stakeholder En <u>Hamrick, BL</u>	gagement: Challenges and Pitfalls	P04.02
Accidental Man Fukushima Acc	Pluralistic and Multidisciplinary Approach to Post- agement Facing in New Questions Raised by the ident ano, D; Mehl-Auget, I; Godet, JL	P04.03
Implementatio Charron, SC	n of a "Citizens' Workshop" on Domestic Radon	P04.04
Vicinity of Nucl Clyne, F; Dale, F	an Opportunity to Engage with the Public in the ear Licensed Sites in the UK P; Dewar, A; Garrod, C; Kennedy, P; nberton, R; Stephen, P	P04.05
Protection Reg	volvement In The Improvement Of Radiation ulations ellens, RS; El-Sabbahy, H	P04.06
of the USNRC R Recommendati	f Stakeholders to Consider Increasing Alignment adiation Protection Framework with International ions an-Butler, K; Sahle, S	P04.07
Public Percepti	on of a Low Level Radioactive Waste Facility se Study during a Planning Application	P04.08
	ion: Interfacing Science and the Courts veg, T; Blackwell, C; Sauer, N; Chavez, EL	P04.09
	ibility within an Irradiation Facility: A Brief mplementation Process Experience uix, MB	P04.10
Stakeholder En Response <u>Croft, JR</u> ; Bandl	gagement in UK Emergency Preparedness and e, T	P04.11
2010 Helsinki R Engagement Ex Koskelainen, M	·	P04.12
The Nuclear Ree engagement <u>Cesario, PA</u>	gulatory Authority's experience in stakeholder	P04.13
	gagement Through Web Operations ssic, K; Roessler, G; Wahl, L	P04.14













Assessment of the Monetary Value of Man-Sv for Korean NPP Radiation Workers Kim, SI; <u>Lee, BI</u> ; Suh, DH; Lim, YK; Jeong, MS	P04.15
An Approach to Stakeholders Involvement in the Preparedness for Nuclear and Radiological Emergency Response & Recovery in Spain Montero, M; Gallego, E	P04.16
Reaching Out with "Ask the Experts" <u>Wahl, L;</u> Roessler, G; Classic, K; Dickson, H	P04.17
Radiation Risk Perception for the Co-Medical Students Yokoyama, S; Kodaira, N	P04.18
The Importance of Effective Communication with the Public and the Media on Issues of Radiological Protection Walker, SG	P04.19
Methodology for Comprehensive Monitoring of the Environment and Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; <u>Shandala, NK</u> ; Romanov, VV; Novikova, NY; Titov, AV; Lyahinskaya, AM; Tukov, AR	P04.20
Transmission and Dissemination of Radiation Protection Culture to Young Generations <u>Réaud, C;</u> Charron, S; Schneider, T; Bernaud, JY; Livolsi, P; Delattre, A; Monti, P; Schneider, C; Le Clerc, A; Rochereau, S; Ayrault, D; Lerou, F	P04.21
Comparing Risks for Communication Peralta , AP; Ng, KH	P04.22
Public Training on Radiation: Changing Perceptions <u>Lynn, HS</u> : Frame, P	P04.23
Effective Procedures and Measures for Public Understandings on Peaceful Usage of Radiation and Atomic Energy limoto, T; Saitoh, A; Suzuki, A; Makabe, K; Mitsui, R; Yokote, M	P04.24
Studies on Risk Perception Involving Radioactive Waste Tanimoto, KS; Rodrigues Jr, O; <u>Hiromoto, G</u>	P04.25
Presenting Radiological Risks to the Public, Schools and Visitors: The Experience at the Joint Research Centre in Ispra <u>Giuffrida, D</u> ; Osimani, C	P04.26
Information to the Public: Viewpoints on an Index of Environmental Radioactivity <u>Fournier, M;</u> Clipet, N; Jaunet, P	P04.27
Public Demand for environmental Transparency: Challenges of presenting Data of the Radiological Survey of the Environment to the Public Clipet,N ; Fournier, M; Jaunet, P; Levelut, MN	P04.28
Don't Say Don't: The Importance of Being Positive When Communicating with the Public Cehn, Jl	P04.29
Radiation Risk Scale – A Tool for Communication Ansari, A	P04.30

Poster s	essions A-B: Area 5	
Туре:		
Date:		
Room:	Hall 4	
	y after 50 Hz Electric or Magnetic Field Exposure	P05.01
Lambrozo, J; S		105.01
Assessment of Fields of Powe Farvadin, D; N	Public Exposure to 50 Hz Electric and Magnetic	P05.02
Exposed to EL	on Profiling of Human HaCaT Keratinocytes F-EMF Revealing Inhibition of Cell Cycle Progress uang, CY; Hsu, IC	P05.03
Mobile Phone Farvadin, D; N	Public Exposure to Radiofrequency Radiation Near Base Stations in Iran asehnia, F; Zamani, M; Rahimian E; Ghaffar Nezhad, F	P05.04
by Compact Fl	Public Exposure to Ultraviolet Radiation Emitted Juorescent Lamps in Iran amani, M; Nasehnia, F	P05.05
And Benign Br Ultrasound?	aphy Enable Accurate Differentiation Of Malignant east Lesions Compared To Conventional wood, A; Anwar, N; Mian, M	P05.07
	pemission of CsBr: Efficiency for UV-Skin-Dosimetry ak, OY; Tsvetkova, OV	P05.08
During "voice	of RF Power Emitted by 3g Mobile Telephones over ip" (voip) Communications Chauvin, S; Bragard, G; Picard, D; Desreumaux, JP	P05.09
The Electroma	gnetic Field of Modern Communication as a Factor ment: Hygiene and Radiobiological Effects	P05.10
Radiation by C Igolkina, JV; Ba	f Effects of Low Intensity Radio Frequency Changes in Functional Activity of Hydrobionts aranova, MM; Sarapultseva, DV; Paukova, OA	P05.12
in Water	ffect of Magnetic Field on Hetrotrophic Bacteria amarghandi,; Rahmani,; Saeidi,; Roshanaii,	P05.13
The Effects Of Lymphocytes* Liu, JY; Zhang,		P05.14
System on Cor Radiation of Lo	Research of the Reaction of the Central Nervous mbined Action of Physical Factors Non-Ionizing ow Intensity EE; Lukyanova, SN; Alekseeva, VA; Grigoriev, OA	P05.15













The National Register of RF Workers: A long-term, follow-up study <u>Litchfield</u> , <u>IJ</u> ; Sorahan, T	P05.17
The Effects of Electromagnetic Fields of Mobile Phones on Children - the Viewpoint of the Russian Committee on Non- lonizing Radiation Protection <u>Grigoriev, OA</u> ; Grigoriev, YG	P05.18
Postgraduate Education on Hygiene of Non-Ionizing Radiation: Program and Organization for Teaching Process Grigoriev, O; Bushmanov, A; <u>Merkulov, A</u> ; Alekseeva, V	P05.19
Optical Radiation Risk Assessment And Management Gentile, L; <u>Sartor, W</u>	P05.20
Assessment of EMF Exposure with a Personal Monitor Campos, MCA	P05.21
Non-lonizing Radiation Measurements in Kenya <u>Chumba, J K</u> ; Kinyanjui, N	P05.22
Measurements of Electromagnetic Fields Near Cellular Base Stations (BTS) for Radiation Protection Purposes Shadrack, AK	P05.23
Non Ionizing Radiation Protection Infrastructure and achievements of Regulatory Authority in Iran Kardan, MR; Babakhani, A; Farvadin, D	P05.24
Methodology of the Tests on Efficiency of the Means for Biological Protection against Non-Ionizing Radiation (by the Example of EMF and Infrasound) Merkulov, A; Grigoriev, O; Dragan, S; Kezik, V	P05.25
A Material Carbonization as a Mechanism for Protection from Direct High-power Laser Beam Muric, B; <u>Pantelic, D</u> ; Vasiljevic, D	P05.26
Selecting Medical Laser Diodes Radiation Eye Protectors Gentile, L; <u>Sartor, W</u> ; Baratti, A	P05.27
Chronic Lymphocytic Leukemia and Non-Ionizing Raditation- Case Report Djokovic, J; <u>Milacic, S</u>	P05.28
Radio Frequency Fields in Our Surroundings – Measurements in the Frequency range of 80 MHz-3 GHZ. Are Measurements Sufficient to Meet Peoples Concern? <u>Sjømoen, TM</u> ; Klæboe, L; Lervik, H; Heimdal, PE; Hannevik, M	P05.29
Can Earth's ULF Magnetic Micropulsations Induce Brain's Spurious Activities - Preliminary Study - ? Souza de Assis, A	P05.30

Poster s	essions A-B: Area 6	
Туре:	Poster Session	
Topic:	Planned Exposure Situations: Industry and I	Research
Date:	Monday 14 and Tuesday 15 May 2012	
Time:	16:00 - 17:00 hours	
Room:	Hall 4	
Outage Dose P	tdown Technology at DC Cook 1,2 Achieves Performance Improvement in 4 Outages from artile to Top Decile	P06.01
ALARA Achieve Cook Nuclear F <u>Miller, DWM</u>	ement:Fourth Quartile to Top Decile in Six Years at Plant	P06.02
Uranium Mine	uation of the Natural Uranium Released by an ra, W; Kelecom, A	P06.03
Operators of G	asure the Dosimetric Risks: An Application to the ammagraphic Inspections nan, S; Cordier, G; Leonard, JG	P06.04
	mework and Technology Development for Cycle Facility in Korea JJ; Choo, YH	P06.05
Hague: Prelimi Baysson, H; Mi	nent of Nuclear Workers from Areva NC – La inary Results chel, Y; Caer-Lohro, S; Acker, A; er, D; <u>Samson, E</u>	P06.06
Information Sy Database	rstem on Occupational Exposure and ISOE ber, C; Miller, D; Hayashida, Y; Ma, J; Okyar, HB	P06.08
	ks Robotization. Application to Water Filter Change Castro, D; Jahan, S	P06.10
and the Direct Nuclear Power Gaillard-Lecan Carrel, F; School	nma Imaging System dedicated to the Detection Visualization of Hot Spots (mainly 60Co) in Plants u, E; Hameau, D; Onillon, H; Jahan, S; epff, V; Gmar, M; Maurer, JE; Mahé, C; ang, M; Arnette, A; <u>Courageot , E</u>	P06.11
	tts for Radiation Protection	P06.12
Suggestions of Nuclear Equipo Lu, G	n the Improvement of Regulatory Activities on ment in China	P06.13
Containment A	Environmental Release of NPP Based on Measurements Ie, S; Lang, E; Nemeth, I; <u>Pazmandi, T</u>	P06.14
	rotection During a PWR Refuelling Outage , M; Lunn, M; Blaauw, L	P06.15
ALARA Design Approval <u>Kim, KY</u> ; Kim, F	Concept of SMART Reactor for Standard Design HY; Song, JH	P06.16













P06.17
P06.18
P06.19
P06.20
P06.21
P06.22
P06.23
P06.24
P05.25
P05.26
P06.27
P06.28
P06.29
P06.30
P06.32
P06.33
P06.34

Radiological Protection Arrangements for Decommissioning the complex Nuclear Site at Dounreay Thompson, P; McLean, L; Watkin, T; White, S	P06.35
Radiological Control Programme During Decommissioning Projects At Necsa <u>Vreÿ, SJ</u>	P06.36
Airfed Suits in Nuclear Decommissioning - Safe Working Practices Webb, DA; Millard, CE; Vaughan, NP; <u>Simister, D</u>	P06.37

Webb, DA; W	iliard, CE; vaughan, NP; <u>Simister, D</u>	
Poster	sessions A-B: Area 7	
Type:	Poster Session	
Topic:	Planned Exposure Situations: Medical	
Date:	Monday 14 and Tuesday 15 May 2012	
Time:	16:00 - 17:00 hours	
Room:	Hall 4	
		P07.01
using Hybrid	ar Dosimetry Following Radiotherapy Treatment Computational Phantoms Derreumaux, S; Broggio, D; Chea, M; Boisserie, G	P07.02
Radiotherap	n of CT Imaging Protocols for Diagnostic vs y Applications seini-Ashrafi, M; Ioannou, L; Royle, G	P07.03
Heavy Ion Ra	diation Safety System for Shanghai Proton and Idiotherapy Facility Wang, G; Xu, X; Lv, J; Wang, J	P07.04
Therapy by F	ses of Over-dose Exposure Accident in Radiological MECA Technique: use of Fuzzy Logic Techniques siardina, M; <u>Tomarchio, E</u>	P07.05
Equipments	f Radiation Safety Reports For Brachytherapy In Korea ark, SH; Ahn, SD; Cho, WK	P07.06
	of Dose Calculation Accuracy on MV Cone Beam CT g HU-density Conversion Method KN; Suh, TS	P07.07
Dosimetric A Patient's Brea	Study of the Partial Breast Irradiation Techniques; nalysis Depending on Various Tumor Locations in ast s, SH; Suh, TS; Choi, BO	P07.08
Systems in R	Methods and Accuracy of Treatment Planning adiotherapy denna, C; Occhigrossi, A	P07.09
	f Polyethylene Phantoms Filled with Water in osimetry in Radiotherapy chelin, HR	P07.10
Carbon-ion F	Simulation of Out-of-Field Dose Distribution in Radiotherapy with Passive Beam sufuji, N; Namba, M	P07.11













Radiotherapy Bunker Design: Realistic Orientation Factors and Duty Cycles Based on Machine Usage Data <u>Jones, M;</u> Stanford, C; Smith, S; Hardy, M	P07.12
Lessons Learned From Significant Events In Radiotherapy <u>Rousse, C</u> ; Cillard, P; Isambert, A; Godet, JL	P07.13
Radiotherapy Safety and Quality Management System <u>Franchi, V</u> ; Rousse, C; Godet, JL	P07.14
Development of a New X-ray Source System using Ultraviolet Laser for Medical Treatment <u>Minami, K</u> ; Ishida, T; Kobayashi, H; Mimura, H; Shimo, M; Suzuki, S	P07.15
FMEA in Developing a QM Program in Protontherapy <u>Cantone, MC;</u> Ciocca, M; Fossati, P; Krengli, M; Lorentini , S; Molinelli, S; Schwarz, M; Veronese, I; Vitolo, V; Orecchia, R	P07.16
Upgrading QA/QC Programme in Radiation Therapy in Croatia: Results of the IAEA CRO 6008 Project Jurkoviæ, S; Švabiæ, M; <u>Dikliæ, A</u> ; Smiloviæ Radojèiæ, Đ; Kasabašiæ, M; Ivkoviæ, A; Faj, D	P07.17
Application Of ALARA Principle In Minimizing The Exposure Of Operator Of Radiotherapy Co-60 Units Sabol, J.; Hudzietzová, J.; Navrátil, L.	P07.18
Comparison of Peripheral Doses in Head and Neck Cancer: Tomotherapy versus Rapid Arc Duchateau, M; D'Agostino, E; Defraene, G; <u>Cauwels, V</u>	P07.19
Evaluation the Effect of Treatment Unit on Results of Treatment Planning Systems in External Beam Radiotherapy Golrokh Nodehi, MR; Asnaashari, K; <u>Khosravi, HR</u> ; Khosravi, HR; Mahdavi, SR; Shirazi, A; Gholami, S	P07.20
MOSFET Dosimetry for Evaluation of Gonad Shielding during Radiotherapy. <u>Kim, HY</u> ; Choi, YS; Park, SY; Park, YK; Ye, SJ	P07.21
The Influence of Spatial Fractionation in Beam Delivery on Responses of Normal Brain, Brain Tumor and Vascular Endothelial Cells Lee, MH; Lee, KM; <u>Kim, EH</u>	P07.22
Evaluation of Polyethylene Phantoms Filled with Water in Peripheral Dosimetry in Radiotherapy Soboll, DS; <u>Schelin, HR</u>	P07.23
Radiation Safety Practice in BPKM Cancer Hospital, Nepal <u>Chand, Surendra Bahadur</u> ; Chaurasia, PP; Adhikary, MP	P07.24
Study on Radation Protection and Dose Distribution of γ Knife Stereotactic Radio Therapy System Zhang, W; Yu, X; Yang, K	P07.25
Traceability of Proton Therapy Beam Obtained from TESLA Accelerator Installation Spasic Jokic, VSJ	P07.26
Haemodialysis and Sequential I131 Ablation Therapy for Metastatic Follicular Ca: A Radiation Protection Perspective <u>Hufton, IS</u> ; Carroll, MJ; Jones, GO	P07.27
Delivered Dose From Photoneutrons In A Head Phantom During Therapeutic Radiation <u>Juste, B</u> ; Miro, R; Verdu, G; Abella, V; Diez, S; Campayo, JM	P07.28

Radiation Dosimetry In The New PET/CT Facility In Morocco <u>Cherkaoui El Moursli, RC;</u> El kharrim, AE; Talsmat, KT; Toufique, Y; Verra, P	P07.29
Radiation Risk to Patients from Nuclear Medicine Procedures in Camagüey and Ciego De Ávila Provinces (Cuba) During the Period 2000 - 2005. Brígido, O; Barreras, A; Montalván, A; Prieto, F; Hernández, J	P07.30
Radiation Protection Issues Associated With The Administration of 1131 Therapy to a Critically III Patient on an Intensive Therapy Ward McCallum, SJ	P07.31
Radiation Dose to Patients from 18F-FDG PET/CT Examinations and Discussion on Dose Reduction Strategies Gunalp, B	P07.32
Radiation Protection Organisation in the General Electric FDG- Radiopharmaceutical Facility at the Joint Research Centre in Ispra <u>Giuffrida, D</u> ; Osimani, C	P07.33
Radiation Protection in a PET/CT Installation. The Design Change to Optimize Radiation Protection. Antonescu, E; Coroianu, AID; Tudose, A	P07.34
Physiologically Based Pharmacokinetics Model for Dose Estimations of 18F-FDG Examinations Akahane, K; Shimada, Y	P07.35
Radiation Protection Procedures For Y-90 Microspheres Therapeutic <u>Reis, T</u> ; Carvalho, A; Figueira, R; Batel, VP; Oliveira, A; Oliveira, P; Pereira, J	P07.36
Whole Body Clearance Rate Determinations for Post-surgical DTC I-131 Treatment Patients Lai, YC; Chen, YW; Chang, CC	P07.37
Measurement Of Neutron Fluxes In A Medical Compact Cyclotron Room With Boron-Containing Water Self-Shielding Fujibuchi, T; Horitsugi, G; Yamaguchi, I; Eto, A; Iwamoto, Y; Obara, S; Watanabe, H; Hatazawa, J	P07.38
Improving Radioprotection in a Cyclotron & PET Center Savio, E; <u>Terán, M</u> ; Balter, H; Paolino, A; Lago , G; Oliver , P; Engler , H	P07.39
Design and Setting Up of the Unit of Molecular Imaging of Large Animals at the National Centre for Cardiovascular Research. <u>Escudero. R</u> ; Moreno, J; Delgado, R; López, G	P07.40
Shielding Studies for Radioactive Isotopes Used in Nuclear Medicine <u>Mora-Zeledon, I</u> ; Contreras-Gonzales, JL; Paziy, V; Gutierrez-Varela, J; Martinez-Gomez, LC	P07.41
A Measuring tool for Protective Environment and Behavior Against Radiation Hazard from PET-CT Cho, D; Jung, J; <u>Han, E</u>	P07.42
Effect of Patient Morphology in Paediatric Nuclear Medicine Dosimetry Based on 3d Whole-Body CT Images <u>Desbrée, A</u> ; Gardumi, A; Pierrat, N	P07.43













Radiation Shielding in a PET/CT Department: Use of Optimisation Techniques Gallacher, D J; Woods, E; MacKewn, J	P07.44
Evaluations of Occupational Exposure During Bone Scan Procedure Hamza, Y; <u>Osman, H;</u> Sulieman, A; Boshara, N	P07.45
Evaluation of Radioactivity Decontamination from Different Materials for Surfaces of a Generally Purpose Radioisotope Laboratory. Borré, C; Tesán, F; Leonardi, N; Rivera, E; Zubillaga, M; Salgueiro, MJ; <u>Martin, G</u>	P07.46
Determination of Optimization Means of the Radiological Protection in Cyclotron and Nuclear Medicine <u>Guimarães, MICC</u> ; Adissy, PF; Videira, HS; Buchpiguel, CA	P07.47
In-patients Receiving 90Y-Dototoc / Dotatate Therapy: Dose Rate Analysis & Radiation Protection Advice <u>Jones, GO</u> ; Hufton, IS; Carroll, MJ	P07.48
Radiation Safety in Nuclear Cardiology: Current Knowledge and Practice - Results from the 2011 ASNC Member Survey <u>Einstein, AJ</u> ; Tilkemeier, P; Fazel, R; Reames, P; Rakotoarivelo, H; Shaw, LJ	P07.49
Improving Safety in Radiation Therapy <u>Gilley, DB</u> ; Holmberg, O; Czarwinski, R	P07.50
Sensitivity Analysis of Influence Parameter on Radiological Risk for LINAC facility Yu, HJ; Jang, HK; Kim, TW; Lee, JK	P07.51

	Ta, HD, Jang, HR, Rilli, TW, Ecc, JR		
Poster s	essions A-B: Area 8		
Туре:	Poster Session		
Topic:	Waste Management		
Date:	Monday 14 and Tuesday 15 May 2012		
Time:	16:00 - 17:00 hours		
Room:	Hall 4		
Reference Leve	Towards Harmonization: Implementing the WENRA Safety Reference Levels for Storage Berger, JP; <u>Lorenz, B</u> ; McGinnes, D		
Management a	INSC Assistance on Improvement of Safety of Waste Management and Decommissioning Worldwide Batandjieva, Ms B; Farrar, B., Mr.		
Gamma Counti	idation by Montecarlo Simulations of a Total ing Tunnel for Clearance Purposes A; Ravazzani, A; <u>Osimani, C</u>	P08.03	
Clearance at JR Nalin, T; Reque	C-Ispra jo, C; Ravazzani, A; <u>Osimani, C</u>	P08.04	
	g of Nuclear Licensed Sites in the United Kingdom Johnson, S; McCready-Shea, S; Nattress, E	P08.05	
Exemption and Regulatory Sys Bossio, M C; Mu		P08.06	

Oak Ridge National Laboratory's "Authorized Limits" Process for Unrestricted Release of Exempt-Level Radioactive Materials Schwahn, SQ: Stephens, GM Validating A Clearance Approach For NPP Containerized Materials And Big Items Garcia-Bermejo Fernandez, R; Anaya Lazaro, M; Orive Moreno, R; De Diego Compadre, JL; De Diego Compadre, JL Radiological Characterisation and Elimination of Waste from the CERN Accelerator Complex Froeschl, R; Ulrici, L; Walter, N; Saraiva, JP Estimation of Ratios Among Corrosion Products in the Reactor Coolant of a PHWR and its Inference for Spent Resins Alvarez, DE; Bossio, MC; Medici, MA; Muñiz, CC Activities Of The Radiological Protection Technical Unit In Relation To Radioactive Waste Management Ortiz, T; Alcaide, E; Garcia, JA; Orta, MC The Environmental Radiological Surveillance Programme of the El Cabril Low and Intermediate Level Radioactive Waste Disposal Facility Fuentes, L; Pinilla, JL; Ortiz, T Application Research of Decontamination Process of Primary Coolant Pump in Nuclear Power Plant WU, Q Study on Minimization of Radioactive Wastes in the Mo 99 Production Vicente, R; Rego, ME; Hiromoto, G Surveillance of Radioactive Discharges from the Centre of Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment and Public Health		
Materials And Big Items Garcia-Bermejo Fernandez, R; Anaya Lazaro, M; Orive Moreno, R; De Diego Compadre, JL; De Diego Compadre, JL Radiological Characterisation and Elimination of Waste from the CERN Accelerator Complex Froeschl, R; Ulrici, L; Walter, N; Saraiva, JP Estimation of Ratios Among Corrosion Products in the Reactor Coolant of a PHWR and its Inference for Spent Resins Allvarez, DE; Bossio, MC; Medici, MA; Muniz, CC Activities Of The Radiological Protection Technical Unit In Relation To Radioactive Waste Management Ortiz, T; Alcaide, E; Garcia, JA; Orta, MC The Environmental Radiological Surveillance Programme of the El Cabril Low and Intermediate Level Radioactive Waste Disposal Facility Fuentes, L; Pinilla, JL; Ortiz, T Application Research of Decontamination Process of Primary Coolant Pump in Nuclear Power Plant WU, Q Study on Minimization of Radioactive Wastes in the Mo 99 Production Vicente, R; Rego, ME; Hiromoto, G Surveillance of Radioactive Discharges from the Centre of Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment Kotenko, KV; Shandala, NK; Romanov, VV;	Unrestricted Release of Exempt-Level Radioactive Materials	P08.07
CERN Accelerator Complex Froeschl, R; Ulrici, L; Walter, N; Saraiva, JP Estimation of Ratios Among Corrosion Products in the Reactor Coolant of a PHWR and its Inference for Spent Resins Alvarez, DE; Bossio, MC; Medici, MA; Muñiz, CC Activities Of The Radiological Protection Technical Unit In Relation To Radioactive Waste Management Ortiz, T; Alcaide, E; Garcia, JA; Orta, MC The Environmental Radiological Surveillance Programme of the El Cabril Low and Intermediate Level Radioactive Waste Disposal Facility Fuentes, L; Pinilla, JL; Ortiz, T Application Research of Decontamination Process of Primary Coolant Pump in Nuclear Power Plant WU, Q Study on Minimization of Radioactive Wastes in the Mo 99 Production Vicente, R; Rego, ME; Hiromoto, G Surveillance of Radioactive Discharges from the Centre of Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, R; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment Kotenko, KV; Shandala, NK; Romanov, VV;	Materials And Big Items <u>Garcia-Bermejo Fernandez, R</u> ; Anaya Lazaro, M; Orive Moreno,	P08.08
Coolant of a PHWR and its Inference for Spent Resins Alvarez, DE; Bossio, MC; Medici, MA; Muñiz, CC Activities Of The Radiological Protection Technical Unit In Relation To Radioactive Waste Management Ortiz, T; Alcaide, E; Garcia, JA; Orta, MC The Environmental Radiological Surveillance Programme of the El Cabril Low and Intermediate Level Radioactive Waste Disposal Facility Fuentes, L; Pinilla, JL; Ortiz, T Application Research of Decontamination Process of Primary Coolant Pump in Nuclear Power Plant WU, Q Study on Minimization of Radioactive Wastes in the Mo 99 Production Vicente, R; Rego, ME; Hiromoto, G Surveillance of Radioactive Discharges from the Centre of Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment Rotenko, KV; Shandala, NK; Romanov, VV;	CERN Accelerator Complex	P08.09
Relation To Radioactive Waste Management Ortiz, T; Alcaide, E; Garcia, JA; Orta, MC The Environmental Radiological Surveillance Programme of the El Cabril Low and Intermediate Level Radioactive Waste Disposal Facility Fuentes, L; Pinilla, JL; Ortiz, T Application Research of Decontamination Process of Primary Coolant Pump in Nuclear Power Plant WU, Q Study on Minimization of Radioactive Wastes in the Mo 99 Production Vicente, R; Rego, ME; Hiromoto, G Surveillance of Radioactive Discharges from the Centre of Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment Kotenko, KV; Shandala, NK; Romanov, VV;	Coolant of a PHWR and its Inference for Spent Resins	P08.10
El Cabril Low and Intermediate Level Radioactive Waste Disposal Facility Fuentes, L; Pinilla, JL; Ortiz, T Application Research of Decontamination Process of Primary Coolant Pump in Nuclear Power Plant WU, Q Study on Minimization of Radioactive Wastes in the Mo 99 Po8.14 Production Vicente, R; Rego, ME; Hiromoto, G Surveillance of Radioactive Discharges from the Centre of Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment Rotenko, KV; Shandala, NK; Romanov, VV;	Relation To Radioactive Waste Management	P08.11
Coolant Pump in Nuclear Power Plant WU, Q Study on Minimization of Radioactive Wastes in the Mo 99 Production Vicente, R; Rego, ME; Hiromoto, G Surveillance of Radioactive Discharges from the Centre of Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment Rotenko, KV; Shandala, NK; Romanov, VV;	El Cabril Low and Intermediate Level Radioactive Waste Disposal Facility	P08.12
Production Vicente, R; Rego, ME; Hiromoto, G Surveillance of Radioactive Discharges from the Centre of Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment And Pola. 22 Methodology for Comprehensive Monitoring of the Environment Pola. 22 And Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; Shandala, NK; Romanov, VV;	Coolant Pump in Nuclear Power Plant	P08.13
Isotopes of Cuba Amador, ZH; Pérez, S; Rivero, AT; Oropesa, P Analysis of Air Discharges from a PET Radiopharmaceuticals Production Center Based on a Cyclotron Tomarchio , E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment and Po8.22 And Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; Shandala, NK; Romanov, VV;	Production	P08.14
Production Center Based on a Cyclotron Tomarchio, E Transfer of Tc-99 from soils to Rice and Upland Crops Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment And Po8.22 Methodology for Comprehensive Monitoring of the Environment Comparison of Safe Nuclear Engineering Development Kotenko, KV; Shandala, NK; Romanov, VV;	Isotopes of Cuba	P08.15
Choi, YH; Lim, KM; Jun, I; Keum, DK; Kim, IG Seaweed Transfer into Foodstuffs Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment And Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; Shandala, NK; Romanov, VV;	Production Center Based on a Cyclotron	P08.16
Toner, M; Dale, P Standardised Reporting of Radioactive Discharges from AWE Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment And Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; Shandala, NK; Romanov, VV;		P08.17
Sites. A View from a Nuclear Site with Multiple Discharge Outlets Cockerill, RJ; Dolan, MJ; Place, AH Comparison of Sampling and Analysis Procedures for NORM in P08.20 Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of P08.21 Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment P08.22 and Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; Shandala, NK; Romanov, VV;		P08.18
Produced Water Discharged from Oil Platforms North Sea Nilsen, M; Russ, R; Robinson, CA; Saleh, S Radiological Assessments of the Public: the Challenge of P08.21 Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment P08.22 and Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; Shandala, NK; Romanov, VV;	Sites. A View from a Nuclear Site with Multiple Discharge Outlets	P08.19
Assessing Changes to the 'Critical Group' at Sellafield Leonard, P Methodology for Comprehensive Monitoring of the Environment P08.22 and Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; Shandala, NK; Romanov, VV;	Produced Water Discharged from Oil Platforms North Sea	P08.20
and Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; <u>Shandala, NK</u> ; Romanov, VV;	Assessing Changes to the 'Critical Group' at Sellafield	P08.21
	and Public Health as an Important Evidence of Safe Nuclear Engineering Development Kotenko, KV; <u>Shandala, NK</u> ; Romanov, VV;	P08.22













Poster s	essions A-B: Area 9	
Type:	Poster Session	
Topic:	Emergency Expsoure Situations	
Date:	Monday 14 and Tuesday 15 May 2012	
Time:	16:00 - 17:00 hours	
Room:	Hall 4	
	mendations on Emergency Exposure Situations on on Setting Reference Levels yar, HB	P09.01
	nent of Radioactive Material Intakes at AWE ones, CS; Jones, DM; Lewis, NJ; <u>Morgan, C</u>	P09.02
	ick Internal Dose Assessment Graph Following the for Ingestion and Wound Pathway in Emergency uz-Suarez, R	P09.03
Decontaminat Belhomme-He	e Formulations for a Quick Uranium Skin ion <u>enry, C;</u> Phan, G; Bouvier-Capely, _I garande, M; Fattal, E	P09.04
Russian Federa	shmanov, AU; Kotenko, KV;	P09.05
of Exposed Rad Nuclear Accide	ve Drugs in the System of Radiation Protection diation Workers and Population in the Case of ents ov, IB; <u>Vasin, MV</u>	P09.06
Otahal, P; Vosa	dioactive and Nonradioactive Aerosol Behaviour hlik, J; Burian, I; Nemecek, L; Ib Ondracek, JO	P09.07
Radioactivity i Europe	mised Systems for Monitoring of Radiation and n case of a Nuclear or Radiological Emergency in RPF, Astrup, P; Helle, K; Urso, L; Muller, T; Schichtel, T	P09.08
The Applicatio Response and Fang, Hsin-Fa;	n of Web GIS abd Google Earth for Emergency Relative Training Chang, Bor-Jing; Lu, Chung-Hsin; ng; Wang, Chu-Fang	P09.09
Orphan source Experience Rosiello, Luca;	recovery in Genova – Italian Fire Fighter Frezza, Marco	P09.10
	ource Terms Estimation Released into the uring Accidents of Nuclear Power Plants of Design nknown	P09.11
A Nuclear Fuel	A Real Time Follow Up Of A Criticality Accident In Factory nez, G; Ortiz, D; Perez, A	P09.12













Nuclear Security Arrangements for the 2010 FIFA World Cup in South Africa: Part 1: A General Overview (Concept of Operation and Lessons Learned) Kros, CG; Visagie, AL; Steyn, IE	P09.13
The Creation of the National Alliance for Radiation Readiness (NARR) – Bringing Together Public Health and Radiation Control Salame-Alfie, A	P09.14
Development and Utilization of Gamma-ray Shielding Suit Excellent Easy-to-wear <u>Yamanishi, H</u> ; Ito, T; Yamamoto, T; Yamamoto, K	P09.15
Evaluation of the Emergency Planning Zone for Nuclear Power Plants in Taiwan After Fukushima Daiichi Nuclear Accident <u>Chang, SJ</u> ; Wu, J; Wang, ZW; Yang, YM; Chang, BJ	P09.16
DSTL RADSAFE Exercise Corbett, B	P09.17
Dimensioning of Norwegian Nuclear and Radiological Emergency Preparedness and Crisis Management Selnæs, ØG	P09.18
Use of the SCALE-SAS1 Code for Dose Rates Calculations in Case of a Criticality Accident Laget, M; Thomassin, A; Arial, E	P09.19
UK Emergency Preparedness and Response Arrangements: The Role of the Nuclear Regulator <u>Little, S;</u> Powell, R; Dicks, P; Etheridge, B; Mayor, A	P09.20
Assessment of Dose Rates due to a Criticality Accident - Influence of Source and Protections <u>Arial, E</u> ; Laget, M; Thomassin, A	P09.21
UAS Gamma Spectrometry for Detection and Identification of Radioactive Sources <u>Gårdestig</u> , MR; Kock, P; Pettersson, HBL	P09.22
International Data and Information Exchange Systems to support the EU Member States during Radiological and Nuclear Emergencies <u>De Cort, M.</u> ; de Vries, G.; Kalkas, I.; Nishev, A.; Tanner, V.	P09.23
The use of Atmospheric Dispersion Models During Nuclear Emergency Exercises in Belgium Olyslaegers, G; Camps, J; <u>Rojas Palma, C</u>	P09.24
Improving the Swedish Emergency Radiation Protection - Increased Ability through Exercises <u>Östlund, K;</u> Finck, RR; Samuelsson, C; Nilsson, MJC; Kock, P; Hubbard, L	P09.25
Enhancing europe's capability to respond to and recover from nuclear or radiological emergencies - NERIS Platform <u>Croteau, C</u> ; Schneider, T; Mustonen, R; Raskob, W; Liland, A; Duranova, T; Oughton, D	P09.26
Support to the Radiological Group during a Nuclear Emergency Gomez-Argüello, B; Torres, C; Prieto, B	P09.27
Dose Assessment Following Radiation Accidents At The Prima Facility <u>Sandri, S</u> ; Coniglio, A; D'Arienzo, M; Guarracino, M	P09.28

Α	stimation of Source term released using Non-linear Regression nalysis hin, HK; Song, DY	P09.30
TI	he Role of Enresa in Nuclear and Radiological Emergencies Icaide, E; <u>Ortiz, T</u>	P09.31
Р	Iodeling Of Tritium Dispersion From Accidental Release ostulates Of Nuclear Power Plants. <u>oares, AD;</u> Simões Filho, FFL; de Aguiar, AS; Lapa, CMF	P09.32
L	/hat Nuclear and Radiological Emergency Management can earn from Non-Nuclear: a Case Study <u>askob, W;</u> Müller, T; Trybushnyi, D	P09.33
	n Introduction to the UK Government Decontamination Service erswell, RC; Caddick, J; Hewlett, D; Arkell, A	P09.34
aı P	daptation of The International Approaches to Establishment nd Development of Documents on Emergency Planning and reparedness of FMBA Units <u>alenko, YA</u> ; Bogdanova, LS; Grachev, MI; Frolov, GP	P09.35
ir	nalysis of the Practicability of the External Emergency Planning In Germany based on Experiences from the Fukushima Accident <u>ering. F</u> ; Gerich, B; Wirth, E; Kirchner, G	P09.36
R <u>B</u>	MBC-NRPA Cooperation In Medical Radiological Emergency esponse In 2005-2011 <u>ogdanova, LS</u> ; Grachev, MI; Frolov, GP; alenko, YA; Sneve, MK; Jaworska, A	P09.37
Р	ecommendations of the Iodine Prophylaxis to the Russian ublic in Case of the Radiological Accident <u>otenko, KV;</u> Ilyin, LA; Lyaginskaya, AM	P09.38
R Ir	AEA Safety Guide On Criteria For Use In Preparedness And esponse To Nuclear Or Radiological Emergency And Application n A Severe Reactor Emergency uglova, E; McKenna, T	P09.39
	he IAEA's Incident and Emergency System uglova, E; Baciu, F; Martincic, R; Winkler, G	P09.40
<u>A</u>	ordic Nuclear Safety Research (NKS) Programme: Nordic ooperation on Nuclear Safety Issues <u>ndersson, KG</u> ; Ekström, K; Gwynn, JP; lagnússon, SM; Physant, F	P09.41
R	nalysis of the Structure of Medico-Sanitary Consequences of adiation Accidents for Carrying out of Protective Measures <u>latkha, SV;</u> Arefeva, DV; Shayakhmetova, AA	P09.42
U	pdates To UK Emergency And Recovery Advice Following hanges In International Guidance <u>lisbet, AF</u> ; Haywood, SM; Mortimer, K; Simmonds, JR	P09.43
fo at S	ACE (Probabilistic Accident Consequence Evaluation) – a Tool or Assessing the Ranges of Consequences of Potential Accidents t Nuclear Sites herwood, JC; Charnock, TW; Bexon, AP; lematapitiya, C; Higgins, N; Osifo, O	P09.44
V n	/hen I Heard the Words 'Contamination' and 'Instruments' This is ot what I had in Mind! lifton-Climas, D	P09.45













SINAC – Simulator Software for Interactive Modelling of Environmental Consequences of Nuclear Accidents (2nd Generation) Szanto, P; Deme, S; Lang, E; Nemeth, I; <u>Pazmandi, T</u>	P09.46
Hospital Preparedness for a Radiological Terrorist Event <u>Bar-Deroma, R</u> ; Otits, L; Moskovits-Shir, K	P09.47
Moss Biomonitoring in Radiation Exposure Assessment Spiric, Z; <u>Vekic, B</u> ; Barisic, D; Frontasyeva , M; Kusan, V	P09.49
A Rapid Method for the Determination of Low-Level Strontium 90 in Emergency Situation JJ, Y; Shen, B; Shao, X; Dang, L; Tian, Q	P09.50
Evaluating the Use of Radiation Portal Monitors to Screen Livestock during Radiological Consequence Management Operations Marianno, CM; Erchinger, JL; Justina, J; Herring, A	P09.52
HERCA' Activities in Nuclear Emergency Planning and Response: From Chernobyl to Fukushima Majerus, P; Xicluna, D; Piller, G; <u>Van Bladel, L</u>	P09.53
Dose Reconstruction after the Overexposure of a Nuclear Diver Handling Mistakenly Highly Activated Materials <u>Baechler, S</u> ; Laedermann, JP; Bailat, C; Leupin, A; Ritter, A; Scheidegger, R; Bochud, FO	P09.54

Poster sessions A-B: Area 10

Poster Session Type:

Topic: **Existing Exposure Situations**

Date: Monday 14 and Tuesday 15 May 2012

Time: 16:00 - 17:00 hours

Room: Hall 4

Radioactivity and Health Impacts of Some Terrestrial Vegetables

and Fruits in Oil and Gas Producing Areas in Delta State, Nigeria

Tchokossa, P; Olomo, JB; Balogun, FA; Adesanmi, CA

Outdoor/Indoor Exposure to Terresterial Radiation Atkadugli P10.02

Town, Nuba Mountains, Sudan

Kafi, ST; Salih, S

Influence of Measurement Position on Cosmic-Ray Induced Dose P10.03 Inside a Learjet Type Aircraft

Federico, C A; Gonçalez, O L; Caldas, L V E

Review and Cross-comparison of Matroshka Phantom P10.04

Measurements in Different Compartments of the International

Space Station

Hajek, M; Berger, T; Bilski, P; Matthiae, D;

Puchalska, M; Zechner, A; Reitz, G

Hazards and Countermeasures on Extended Space Missions P10.05 Sion, N

P10.06

Dosimetry Onboard Spacecraft Using Passive Detectors

Ambrozova, I; Pachnerova Brabcova, K; Mrazova, Z;

Spurny, F; Shurshakov, VA; Tolochek, RV

Radiation Dose Mapping in the European Columbus Laboratory of the International Space Station	P10.07
Hofstätter, C; Hajek, M; Berger, T; Körner, C; Reitz, G	
Assessing Public Exposure on Commercial Flights in Brazil Rochedo, ERR; Alves, VA; Prado, NM; <u>Lauria, DC</u>	P10.08
Assessment of Natural Radiation Doses in Akure, Southwestern	P10.09
Nigeria. Ajayi, OS	1 10.05
Naturally Ocurring Radionuclides in World Historical Sites	P10.10
Samples Nikolic, J; Jankovic, M; Todorovic, D; <u>Pantelic, G</u>	1 10.10
Natural Alpha Emitting Radionuclides In Bottled Drinking Waters	P10.11
In Croatia And Their Dose Contribution Rožmariæ Maèefat, M; Rogiæ, M; Benedik, LJ; Barišiæ, D	F10.11
	D10.12
Study of Radionuclides in Cochiti Reservoir Sediments <u>Fitch</u> , <u>S</u> ; Chavez, G; Landsberger, S	P10.12
An Interactive Map Of Natural Uranium Content In Tap Drinking Water In Dwellings Surrounding The Joint Research Centre Of Ispra <u>Giuffrida, D</u> ; Osimani, C; Galletta, M; Depiesse, D; Bolchini, O	P10.13
Monitoring of Radioactivity in Fertilizers in Austria Dauke, M; Korner, M; Katzlberger, C	P10.14
Natural Radioactivity of Volcanic Tuff Stones with Different Colors Used as Commonly Building Materials Degerlier, Dr	P10.15
	P10.16
Second Assessment (2008-2009) – Radiological Quality Of Drinking Water In France <u>Caamano, D;</u> Guillotin, L; Jédor, B; Davezac, H; Tracol, R; Loyen, J	P10.16
Mapping the Terrestrial Air-Absorbed Gamma Dose Rate Based	P10.17
on the Data of Airborne Gamma-ray Spectrometry in Southern Cities of China	F10.17
Xiong, S; Wang, N; Fan, Z	
High Radioactive Materials In Building Industry <u>Todorovic, N;</u> Bikit, I; Hansman, J; Nikolov, J; Mrdja, D; Forkapic, S	P10.18
Radioactivity of Soil from Niksic ¡V Montenegro and Assessment	P10.19
of the Corresponding Radiological and Cancer Risk Antovic, NM; Svrkota, N; Antovic, I; Jancic, D	110.15
Assessment of Radioactivity Contents and Associated Risks in Some Soil Used for Agriculture and Building Materials in Cameroun	P10.20
Tchokossa, P; Makon, TB; Nemba, RM	
Iran's Comprehensive Plan for Radiological Assessment on High	P10.21
Level Natural Radiation in Ramsar <u>Babakhani, A</u> ; Kardan, MR; Effaf, MJ	-
Occupational Radiation Doses of United Kingdom High Altitude Mountain Guides as a Result of Cosmic Ray Exposures. <u>Kerr, RW</u>	P10.22
Measurement of Gamma Radioactivity Level in Rock and Soil of	P10.23
Saunder Quarry Site, Abeokuta North, South-Western, Nigeria. <u>Okedeyi, AS</u>	













On the Population Dose 2010 and 2011 at Volincy Municipality in Belarus	P10.25
Dederichs, H; Heuel-Fabianek, B; Hill, P; Lennartz, R; Pillath, J	
Display or Dispose - The Dilemma of Radium in Historical Military Aircraft <u>Williams</u> , D	P10.26
A Coordinated International Effort to Remediate Uranium Mining Sites in Central Asia <u>Metcalf, P</u>	P10.27
Environmental Risk Assessment at a Legacy Site with Enhanced Levels of NORM <u>Brown, J.</u> ; Dowdall, M; Hosseini, A	P10.28
Russian Experience In The Regulatory Supervision Of The Uranium Legacy Sites <u>Titov, AV;</u> Shandala, NK; Kiselev, SM; Isaev, DV; Khokhlova, EA	P10.29
Managing Radiation Risks from Point Sources Dale, P	P10.30
Health Risks from Radioactive Objects on Beaches in the Vicinity of the Sellafield Site Oatway, WB; Brown, J; Etherington, G	P10.31
Withdrawal of Radioactive Lightning Rods in France <u>Charpentier, B</u> ; Rodde, S	P10.32
Norwegian Support in Development of Standards and Regulations on Radioactive Waste Management and Long-Term Monitoring in Uzbekistan Zhunussova, T; Sneve, M; Liland, A; Khalilov, K; Salikhbaev, U; Zaredinov, D	P10.33
Investigation and Remediation of NORM Legacy Sites in Merseyside John, GH	P10.34
Estimating the Radiological Impacts in a Natural High Background Radiation Area: the Case of Horta da Vilariça (Northeastern Portugal) <u>Pereira, AJSC</u> ; Pinto, PGAN; Neves, LJPF	P10.35
Action Procedure in Norm Industries: Coal-Fired Power Plants Robles, B; Mora, JC	P10.36

Poster ses	sions C-D: Area 2	
Type:		
Topic:	Measurements and Dosimetry	
Data and time:		
Date and time:		
Room:		
Using Computed R Mammography Gomes, DS; Barraga	urements in Digital Mammography, adiography (CR) Versus Dose in Analog an, CVM; Costa, KC; Donato, S; Castro, WJ; yton, F; Chevalier del Rio, M; <u>Nogueira, MS</u>	P02.151
Computed Tomogr Milhoretto, E; <u>Sche</u>	ons and Image Reconstruction for a Proton aphy System <u>lin, H</u> ; Setti, J; Denyak, V; Paschuk, S; Evseev, J; Yevseyeva, O; Lopes, R; Vinagre Filho, U	P02.154
Mass Attenuation C in Barite of Differer Almeida JR, AT; Ara <u>Tavares, MS</u> ; Santos	ujo, FGS; <u>Nogueira</u>	P02.155
with a New Dosime	erent Methods for Measuring CT Dose Profiles etry Phantom lau, T; Feltes, M; Poppe, B; von Boetticher, H	P02.156
Using MCA DigiDAl Soppe, E; Villella, A	RT for Neutron Detection ; Carelli, J	P02.157
First Argentinean II Carelli, J; Villella, A;	ntercomparison of Neutron Detectors Soppe, E	P02.158
Thin Wall Recombin Tulik, P; Golnik, N; K	nation Chamber Filled with Nitrogen Krzemiñski,	P02.159
	Detection by Vehicle Radiation Portaling the Background Suppression	P02.160
Settlements	e Teeth of Residents of Techa Riverside y, E; Volchkova, AY; Tolstykh, EI; Degteva, MO	P02.161
•	Method for Radiological Mass Casualty Event Ilator	P02.162
	orations for Measurements of Radionuclides in Radiological Incident	P02.163
Mobile Unit for Site Remediation Project Streil, T; Oeser, V	e Characterization in Environmental cts	P02.164
Deconvolution Usin	Time of Quartz TL peaks: Comparison of the ng the First Order Kinetic to the Initial Rise <u>AJF</u> ; Göksu, HY; Andriambololona, R	P02.165
	oha- and Beta Contamination on Surfaces are with Manual Search? . J	P02.166













Fiber Optic Interferometric Sensor for Registration of X-Ray Radiation Culeac, IP; Andriesh, AM; Iovu, MS; Nistor, IH; Petrenco, PA; Zagonenco, VT; <u>Buzdugan, Al</u>	P02.168
Angular Response of Polymer Films Irradiated with Accelerated Electron Beam Galante, AMS; <u>Campos, LL</u>	P02.169
Studying the Variation of Radon Level Among Covering Materials in Some Houses in Major Cities of the Southwestern Nigeria Oni, OM; Oladapo, OO; Oni, EA; Farombi, O	P02.171
Evaluation and Analytical Comparison of Different 2D and 3D Radiotherapeutic Treatment Planning Systems using Dosimetry with Anthropomorphic Phantom Golrokh Nodehi, MR; Asnaashari Lahroodi, Kh; Khosravi, HR; Khosravi, HR; Mahdavi, SR; Shirazi, A; Gholami, S	P02.175
Development of a Protocol for Radiation Survey Meter Calibration Lessard, F; Beaulieu, L; <u>Chretien, M</u> ; Morrier, J	P02.177
Characterization of OSL response of LiF:Mg,Ti and microLiF:Mg, Ti in 60Co gamma source Bravim, A; Sakuraba, RK; Cruz, JC; Campos, LL	P02.179
Long Distance Radiation Monitoring System using Optical Fiber Scintillator and Silicon Photomultiplier Jeon, SJ; Joo, KS; Beack, SH; Park, MK; Kim, JG	P02.180
Phenomenon of Self-Absorption of Calcium Sulfate - Dysprosium Dosimeter, Made With Iranian Natural Calcium Sulfate <u>Rashidi, SA</u> ; Deevband, MR; Kashani, MM	P02.181
A Comprehensive Study Of The Glandular Dose To Women Participating In The National Mammography Program For Early Detection Of Cancer Of The Breast, In Israel. Broisman, A; Schlesinger, T; Alfasi, Z; Orion, I	P02.182
Different Methods for Tritium Determination in Surface Water by LSC <u>Nikolov, J</u> ; Todorovic, N; Jankovic, M; Vostinar, M; Bikit, I	P02.183
Full-range isotopic calibration of an RMS detector by F-18 decaying source method Lai, YC; Chen, YW; Chang, KL	P02.184
Criteria For Reporting Radiological Data: Two Different Approaches <u>Gascó, C</u> ; Alvarez, A; Navarro, N	P02.185
Thermal Neutron Fluence Measurements Arround a Cyclotron for PET producion <u>Méndez-Villafañe, R</u> ; Sansaloni Florit, F; Lagares Gonzalez, JI; Llop Roig, J; Guerrero Araque, JE; Muñiz, JL; Pérez Morales, JM	P02.186
Identification of a Low-Energy Beta-Emitter by High-Resolution Gamma Spectrometry Barnes. JV; Major, RO	P02.187
The use of a TrueBeam System for the Characterisation of Optical Fibre Based Dosimeters Veronese, I; Cantone, MC; Fasoli, M; Lobefalo, F; Mancosu, P; Moretti, F; Reggiori, G; Scorsetti, M; Vedda, A	P02.188

	eutron Dosimetry Device Using PADC Nuclear Track Detectors <u>opez, FO</u> ; Saint Martin, G; Bernaola, OA	P02.189
Ha <u>Ki</u>	eview on Adequacy of Skin Exposure Dose Evaluation Using arshaw Algorithm <u>m, SD</u> ; Huh, JH; Seo, JS; Lee, BI; Kim, JI; n, BT; Jeong, YC; Lee, SH	P02.190
Ra	nhancement of Exposure Dose Prediction Reliability for addition Workers by Using Represented TLD/ADR Ratiom, JF; Using Huh, JH; Lee, BI; Kim, JI; Oh, BT; Jeong, YC; Lee, SH	P02.191
Co	in GATE Be Used For Monte Carlo Calibrations Of Whole Body ounters? <u>Isson, J</u> ; Isaksson, M	P02.192
Co	ssy Determination of the State of Contamination with a GM ounter <u>ve, YJ</u> ; Chae, GS; Jang, DK	P02.193
Sh	uilding a Modular y-Radiation Monitoring System from off the Belf Components Lisson, MJC; Kock, P; Östlund, K; Finck, RR	P02.194
Se	ability of a Berthold LB6411 Neutron Probe for Use as a econdary Standard <u>pedImoser, H;</u> Schuler, C; Butterweck, G; Mayer, S	P02.195
Fr	ncertainty of Fragment Yield Ratios from Heavy Ion agmentation Measured with Track-Etched Detectors Ichnerova Brabcova, K; Ambrozova, I; Koliskova, Z; Malusek, A	P02.196
Th	erformance Evaluation of Silicon Photomultiplier Sensor for ilckness Gauge nin, DH; Chung, JY; Whang, JH; <u>Kim, KP</u>	P02.197
Irr	ermoluminescence Characteristics of High Gamma Dose adiated Natural Quartz ngh, M; Kaur, N; Singh, L	P02.198
Cr	econvoluting the Internal Contamination of the LaBr3:Ce ystal ock, P; Nilsson, MJC	P02.199
Sy Ba	terlaboratory Comparison of Tritium Electrolytic Enrichment Istems at RBI (Zagreb) and JSI (Ljubljana) Brešić, J; <u>Krajcar Bronić, I</u> ; Horvatinčić, N; Belić, B; Sironić, A; Kožar-Logar, J	P02.200
Ra Sa Pa	e "Electronic Instrumentation Laboratory" (Label) of the idiation Protection Sector at the Joint Research Centre of ISPRA iracho Tortajada, IG; Migneco, A; Riganti, A; Patron ilomo, JE; Zarza Perez, I; Graboleda Castells, F; <u>uffrida, D</u> ; Osimani, C; Minchillo, G	P02.201
Re Sa Pa	educing Personnel Doses and Ensuring Radiation Protection: ectronics Calibration and Performance Checks in the Joint esearch Centre Of ISPRA aracho Tortajada, I; Migneco, A; Riganti, A; Patron alomo, JE; Zarza Perez, I; Graboleda Castells, F; inchillo, G; <u>Giuffrida, D</u> ; Osimani, C	P02.202
Sa	etermination of the Effective Linear Attenuation Coefficient of imples with Unknown Chemical Composition run, JI; Yun, JY	P02.203













Application of Neutron Fields with Fractional Changes of Fast and Thermal Neutron to Test Neutron Measuring Devices <u>Kim, BH;</u> Kim, SI; Kim, JL	P02.204
Maintenance of the Buried Neutron Irradiator <u>Grassi, E;</u> Soppe, E; Villella, A; Carelli, J	P02.205
Evaluation of Radiation Exposure by Natural Radionuclides for Employees in Water Supplies <u>Stietka, M;</u> Baumgartner, A; Seidel, C; Maringer, FJ	P02.206
Setup and Characterization of X-ray Reference Calibration Fields in a Dosimetry Laboratory Hranitzky, C; <u>Stadtmann, H</u> ; Steurer, A	P02.207
Towards a Tool for an Automatic Evaluation of Mammographic Image Quality Oliveira, JEE; Viloria, CM; <u>Nogueira, MS</u>	P02.208
Development of High Performance Automated Digital Imaging Microscope and Counting System Applied For Etched Track Detectors <u>Taheri, M</u> ; Norouz Zadeh, S; Babakhani, A	P02.209
Evaluation of Novel Formulations of PADC Using the TASLImage Analysis System Smith, R; Laing, B; Moss, GR; Henshaw, DL; <u>Hansen, MF</u> ; Fews, AP	P02.211
Study of Agate Using the OSL Technique and Application in High Dose Dosimetry Teixeira , MI; Caldas, LVE	P02.212
Development and Implementation of the NDS Next Generation Thermoluminescence Dosimetry Service <u>Kumar, Manish</u> ; Code, Henry M; Steiner, Charles K; Boileau, John B; Jones, Michael T; Ollerenshaw, Jason E	P02.213
Characteristics of Teflon Powder for Thermoluminescent Dosimetry <u>Teixeira, Ml</u> ; d' Amorim, RAPO; Souza, SO; Caldas, LVE	P02.214
An Innovative Electronic Detector for Computed Tomography Dosimetry Paschoal, CMM; Souza, DN; Santos, LAP; <u>Ferreira Filho, AL</u>	P02.215
Mass Attenuation Coefficients of X-rays in Calcium Phosphate Biomaterials <u>Zenóbio, M</u> ; Zenóbio, E; Silva, T; Nogueira, MS	P02.216
Establishment of Radiation Measurement Instrument Calibration Facility Capable of Lowering Scattered Radiation and Shielding Background Radiation Lee. JH; Su, SH; Chang, BJ	P02.217
Mean glandular dose behavior using different glandularity phantoms Oliveira, BB; Paixão, L; Reynaldo, SR; Leyton, F; Oliveira, MA; da Silva, TA; Chevalier del Rio, M; <u>Nogueira Tavares, MS</u>	P02.218
Simultaneous Determination of U and Pu Isotopes by Alpha Spectrometry Equillor, H; Campos, J	P02.220
Study of the Response of a SP9 Neutron Detector to an Am-Be Source Guerrero Araque, JE; <u>Méndez-Villafañe, R</u> ; Gallego Diaz, E; Lorente Fillol, A; Ibañez Fernandéz, S	P02.221
, ,, , , terrandez j	

New image analysis system for nuclear track detector Radon dosimeter, developed in the Central Laboratory of the Italian Red Cross (SMRA/LC/CRI). Fontana, G. Bennati, P.; Zoffranieri, A; Papetti, T; Marchetti, A; Light, J; Dawodu, A; Cardellini, F Nal spectrometers for indirect detection of neutrons Holm, P; Peräjärvi, K; Sihvonen, AP; Siiskonen, T; Toivonen, H Using the Image Pro Plus to Count Alpha Particles Tracks in Cr-39 Så Miranda, MVFE; Crispim, VR; Gomes, RS; Gomes, JDRL International Intercomparison of Thoron Active Devices with NIRS Thoron Chamber Janik, M; Sorimachi, A; Ishikawa, T; Tokonami, S Mercury Supplementary Inner Shield for Low-Background Gamma-Ray Spectrometry Al-Sharkawy, A; Badran, HM; Sharshar, T Introducing Monte Carlo based calibrations at the whole body counter of the Swedish Radiation Safety Authority Marzocchi, O; del Risco Norrild, L Development of a New lodine Monitor van Tuinen, ST; Hoogeboom, N On The Counting Parameters In The Alpha/Beta Gas Flow Proportional Counters Alegria, N; Idoeta, R; Herranz, M; Legarda, F The Response of Radiophotoluminescent Glass Dosimeter for Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Păzmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Stem Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereschchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration		
Nal spectrometers for indirect detection of neutrons Holm, P; Peräjärvi, K; Sihvonen, AP; Siiskonen, T; <u>Toivonen, H</u> Using the Image Pro Plus to Count Alpha Particles Tracks in Cr-39 Sā Miranda, MVFE; Crispim, VR; Gomes, RS; <u>Gomes, JDRL</u> International Intercomparison of Thoron Active Devices with NIRS Thoron Chamber Janik, M; Sorimachi, A; Ishikawa, T; Tokonami, S Mercury Supplementary Inner Shield for Low-Background Gamma-Ray Spectrometry Al-Sharkawy, A; <u>Badran, HM</u> ; Sharshar, T Introducing Monte Carlo based calibrations at the whole body counter of the Swedish Radiation Safety Authority Marzocchi, O; del Risco Norrlid, L Development of a New Iodine Monitor van Tuinen, ST; Hoogeboom, N On The Counting Parameters In The Alpha/Beta Gas Flow Proportional Counters Alegria, N; Idoeta, R; Herranz, M; Legarda, F The Response of Radiophotoluminescent Glass Dosimeter for Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	dosimeter, developed in the Central Laboratory of the Italian Red Cross (SMRA/LC/CRI). Fontana, C; Bennati, P; Zoffranieri, A; Papetti, T;	P02.222
Sá Miranda, MVFE; Crispim, VR; Gomes, RS; Gomes, JDRL International Intercomparison of Thoron Active Devices with NIRS Thoron Chamber Janik, M; Sorimachi, A; Ishikawa, T; Tokonami, S Mercury Supplementary Inner Shield for Low-Background Gamma-Ray Spectrometry Al-Sharkawy, A; Badran, HM; Sharshar, T Introducing Monte Carlo based calibrations at the whole body counter of the Swedish Radiation Safety Authority Marzocchi, O; del Risco Norrlid, L Development of a New Iodine Monitor proportional Counters Alegria, N; Idoeta, R; Herranz, M; Legarda, F The Response of Radiophotoluminescent Glass Dosimeter for Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, El Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Nal spectrometers for indirect detection of neutrons	P02.223
NIRS Thoron Chamber Janik, M; Sorimachi, A; Ishikawa, T; Tokonami, S Mercury Supplementary Inner Shield for Low-Background Gamma-Ray Spectrometry Al-Sharkawy, A; Badran, HM; Sharshar, T Introducing Monte Carlo based calibrations at the whole body counter of the Swedish Radiation Safety Authority Marzocchi, O; del Risco Norrlid, L Development of a New Iodine Monitor van Tuinen, ST; Hoogeboom, N On The Counting Parameters In The Alpha/Beta Gas Flow Proportional Counters Alegria, N; Idoeta, R; Herranz, M; Legarda, F The Response of Radiophotoluminescent Glass Dosimeter for Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	· ·	P02.224
Gamma-Ray Spectrometry Al-Sharkawy, A; Badran, HM; Sharshar, T Introducing Monte Carlo based calibrations at the whole body counter of the Swedish Radiation Safety Authority Marzocchi, O; del Risco Norrlid, L Development of a New Iodine Monitor propertional Counters Alegria, N; Idooeta, R; Herranz, M; Legarda, F The Response of Radiophotoluminescent Glass Dosimeter for Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Phermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	NIRS Thoron Chamber	P02.225
counter of the Swedish Radiation Safety Authority Marzocchi, O; del Risco Norrlid, L Development of a New Iodine Monitor yan Tuinen, ST; Hoogeboom, N On The Counting Parameters In The Alpha/Beta Gas Flow Proportional Counters Alegria, N; Idoeta, R; Herranz, M; Legarda, F The Response of Radiophotoluminescent Glass Dosimeter for Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Phermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Gamma-Ray Spectrometry	P02.226
van Tuinen, ST; Hoogeboom, N On The Counting Parameters In The Alpha/Beta Gas Flow Proportional Counters Alegria, N; Idoeta, R; Herranz, M; Legarda, F The Response of Radiophotoluminescent Glass Dosimeter for Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	counter of the Swedish Radiation Safety Authority	P02.227
Proportional Counters Alegria, N; Idoeta, R; Herranz, M; Legarda, F The Response of Radiophotoluminescent Glass Dosimeter for Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	·	P02.228
Charged Particles and Its Microscopic Consideration Matsufuji, N; Nomoto, D; Koba, Y Environmental Dosimetry with the Pille TL Space Dosimetry System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Proportional Counters	P02.229
System During the BEXUS-12 Stratospheric Balloon Flight Zábori, B; Hirn, A; Pázmándi, T; Szántó, P Stability Study of Ionization Chambers in Standard Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Charged Particles and Its Microscopic Consideration	P02.230
Mammography Radiation Beams Silva, JO; Caldas, LVE Application of Monte Carlo efficiency transfer method to calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	System During the BEXUS-12 Stratospheric Balloon Flight	P02.231
calibration of coplanar-grid large volume CZT detector Cao, Q; Liu, L; Xiong, W; Xiao, Y; Pan, H A Sample Assay Geometry for a Wide Range of Sample Types and Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Broson, FL Investigation of the Dosimetric Parameters of the PorTL Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Mammography Radiation Beams	P02.232
Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy Bronson, FL Investigation of the Dosimetric Parameters of the PorTL P02.235 Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	calibration of coplanar-grid large volume CZT detector	P02.233
Thermoluminescent Dosimetry System Szanto, P; Apathy, I; Bodnar, L; Deme, S; Keri, A; Pazmandi, T Luminescence Technique and Research on OSL Measurement Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Volumes with a Single Efficiency Calibration, and Still Achieve Reasonable Accuracy	P02.234
Instrument Peng, A; Wang, G; Kang, J; Yang, J Investigation of Metrological Characteristics of Whole Body Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Thermoluminescent Dosimetry System	P02.235
Spectrometer Tereshchenko, EE; Moiseev, NN; Bryukhov, RE; Finkel, FV Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Instrument	P02.236
Automation of the Calibration of Dosimeters for Radiotherapy P02.238	Spectrometer	P02.237
	Automation of the Calibration of Dosimeters for Radiotherapy	P02.238













Performance and type testing of selected dosimeter used for individual monitoring <u>Yousuf, EH;</u> Suliman, II	P02.239
Conversion Factors of Modern Devices Which Can Be Used to Measure Radioactivity in Human Thyroids after Radiation Accident <u>Kutsen, S</u> ; Khrutchinsky, A; Minenko, V; Verenich, K; Zhukovsky, A; Guzov, V; Kozhemyakin, V	P02.240
New Electronic Personal Dosimeter <u>Martin, P</u> ; Raffray, Y; Badel, F; Viallat, T; Gaudin, O; Masseau, JL; Chatron, D; Acris, JF; Bagarry, D	P02.241
Determination of the I-131 Activities in Thyroids from Measurements of Exposure Rates after the Chernobyl Accident: Devices Response and Uncertainties Khrutchinsky, A; Kutsen, S; Drozdovitch, V; Minenko, V; Khrouch, V; Luckyanov, N; Voillequé, P; Bouville, A	P02.242
Neutron Spectrometry and Dosimetry Results at McMaster KN Accelerator Using Three Different Instruments <u>Atanackovic, J</u> ; Witharana, S; Dubeau, J; Matysiak, W; Aslam, I	P02.243
Application of the OSL Technique for Determination of the Useful Calibration Distance Ranges for Beta Radiation Detectors Antonio, PL; Pinto, TCNO; Gronchi, CC; Caldas, LVE	P02.245
Calibration of 90Sr+90Y Sources used for Betatherapy, using a Postal Kit of Thermoluminescent Dosimeters <u>Antonio, PL</u> ; Dullius, MA; Souza, DN; Caldas, LVE	P02.246
Extensions to the Beta Secondary Standard BSS 2 <u>Behrens, R</u> ; Buchholz, G	P02.247
Life Cycle Assessment of the Romanian Reference Standard for Dosimetric Quantities <u>Bercea, IS</u> ; Celarel, DA; Cenusa, ZI; Cenusa, ZC	P02.248
The Effect of the Radiation Background on the Accuracy of the Calibration Performed with Gamma Ray in the IFIN-HH Celarel, DA; <u>Bercea, IS</u> ; Cenusa, ZC	P02.249
Establishment of the Practical Peak Voltage for Tomography Standard Radiation Qualities at the Calibration Laboratory of IPEN Vivolo, V; Neves, LP; Perini, AP; <u>Caldas, LVE</u>	P02.250
Evaluation of Gamma Dose Rate Probes Response in the Slovenian Early Warning System <u>Cindro, M;</u> Krizman, M; Peteh, D; Vokal-Nemec, B	P02.251
 Establishment of the New IEC 61267 Mammography Qualities in a Clinical System Corrêa, EL; Vivolo, V; <u>Potiens, MDPA</u>	P02.252
Results of a Dosimetric System for Personal Dose Equivalent Assessment. Lucente Campos, L; <u>Del Gallo Rocha, F</u>	P02.253
Conversion Coefficients from Air Kerma to Personal Dose Equivalent for Low Energy X-Ray Reference Radiations <u>Figueiredo, M T T</u> ; Da Silva, T A	P02.254
Application of advanced composite materials in the creation of reference volume sources of radionuclides activity. <u>Brjukhov</u> , RE; Finkel, FV	P02.255

Accreditation of Laboratories in the Field of Radiation Science in Croatia Franic, Z.; Marovic, G.	P02.256
Experience Of Introducing A Personal Dosimetry Website HPA Dosimetry On-Line Gibbens, NJ; Gilvin, PJ; Baker, S; Hager, L	P02.257
Progress in Neutron Metrology and Dosimetry at the National Physical Laboratory, London, UK <u>Hawkes, NP</u> ; Bennett, A; Cheema, SS; Horwood, NA; Kolkowski, P; Roberts, NJ; Taylor, GC; Thomas, DJ	P02.258
Photon Radiation from the 252Cf and 241Am-Be Neutron Sources of the PSI Calibration Laboratory <u>Hoedlmoser, H</u> ; Boschung, M; Meier, K; Mayer, S	P02.259
Novel Reference Field for Pulsed Photon Radiation for Research and Type Testing Klammer, J; Hupe, O; Roth, J	P02.260
The effect of PMMA Build-up Layer for a Calibration of Dosemeter for Gamma-ray Sources <u>Kurosawa, T</u> ; Satio, N; Shinagawa, G	P02.261
Calibration of the High and Low Resolution Gamma-Ray Spectrometers <u>Luca, A</u> ; Antohe, A; Neacsu, B; Sahagia, M	P02.262
Evaluation of Radiation Dose in Computed Tomography Standard Beams Using Simulators Martins, EW; <u>Potiens, MPA</u>	P02.263
Impact Of IEC 61066:2006 Standard Testing To The Joint Research Centre Dosimetry System Del Torchio, R; Ferrario, D; <u>Giuffrida, D</u> ; Minchillo, G; Osimani, C	P02.264
Assessment of the Uncertainty of the Results of Control of an Individual Dose Equivalent <u>Natkha, SV;</u> Shayakhmetova, AA; Arefeva, DV	P02.265
Evaluation Methodology And Performance Tests Of Ionization Chambers Of The Air Kerma Area Product Using Mathematical Simulation Potiens Jr, AJ; Potiens, MPA	P02.266
Upgrading of the National Radiation Standards at the Secondary Standards Dosimetry Laboratory (SSDL) in the Philippines Romallosa, KM; Caseria, ES	P02.267
The Support Offered by the Romanian Primary Activity Standard Laboratory to the Nuclear Medicine Field <u>Sahagia, M</u> ; Antohe, A; Luca, A; Waetjen, AC; Ivan, C	P02.268
Calibration and Energy Response Determination of Radiation Protection Area Survey Meters in ISO Narrow Spectrum Photon Beams Suliman, II; ElHassan, MM	P02.269
Secondary Standard Dosimetry Laboratory in Central Laboratory for Radiological Protection in Poland <u>Szewczak, K;</u> Ciupek, K; Woloszczuk, K; Jednorog, S	P02.270
Measurement of Single Scan Dose Profiles in Computed Tomography Dose Phantom Using a Micro Ionization Chamber Takei, Y; Koshida, K; Suzuki, S; Kataoka, Y; Kobayashi, M; Ootsuka, T; Murata, M; Takeda, H	P02.271













Electronic Dosemeters in Pulsed Fields of Ionising Radiation: Determination of Relevant Parameters to Decide on Usability <u>Zutz, H</u> ; Hupe, O; Ambrosi, P; Chiaro, PJ; Voytchev, M	P02.272
Calculation of dose distribution in PET/CT units using MCNPX monte Carlo code <u>Alsafi, K</u> ; Miliebari, S; Alghamdi, A; Ma, A	P02.273
Determination of the Radiation Field in an Interim Storage Facility Becker, F; Zhang, G; <u>Marzocchi , O</u>	P02.274
Construction and use of a Library of 25 Full-Body Male Numerical Models: Rationale and Results <u>Broggio, D</u> ; Beurrier, J; Huet, C; Desbree, A; Farah, J; Bremaud, M; Franck, D	P02.275
Use of Computer Vision Algorithms for Fast Evaluation of the Dose Caused by Scattered Radiation in Industrial Environment Kudrin, I; <u>Chizhov, K</u> ; Mazur, I; Kryuchkov, V; Tesnov, I; Szoke, I	P02.276
Monte Carlo Analysis of Spectrum Produced by Transmission- type X-ray Target <u>Chu, CH</u> ; Hwang, TT	P02.277
Monte Carlo Modeling of Photon Dose Rate Field in the Chernobyl New Safe Confinement Chumak, VV; <u>Bakhanova, EV</u>	P02.278
Analysis of Dose and Risk Associated with the use of Transmission X-Rays Body Scanner Using Monte Carlo Simulation Correa, SCA; <u>Aquino, JO</u> ; Souza, EM; Silva, AX	P02.279
Selection of an Appropriate Air Kerma Rate Constant for Volumetric Se-75 Sources <u>Currier, BH</u> ; Munro III, JJ; Medich, DC	P02.280
Radiological Dose Exposure comparison study between Monte Carlo codes MCNP and SCALE <u>Damon, RW</u> ; van Rooyen, J; Adetula, B	P02.281
Simulation of the Influence of the ISO Water Slab Phantom on the Neutron Field of a Calibration Source <u>Hoedlmoser, H</u> ; Hetland, OS; Mayer, S	P02.282
Monte Carlo Simulation of Radiation Leakage and Design Optimisation for Doors and Doorframes of X-Ray Facilities <u>Hosseini-Ashrafi, ME</u>	P02.283
Comparison of Radiation Shielding Requirements for Ir-192, Co- 60 and Yb-169 HDR Brachytherapy Sources Using Monte Carlo Simulations <u>Hosseini-Ashrafi, ME</u> ; El-Shaer, H	P02.284
Calculation of Calibration Factors and Minimum Detectable Activities in the Lung of Radionuclides Released in the Case of a Nuclear Power Plant Accident Hunt, JG; Dantas, BM; Heiss, J; Cruz Suarez, R	P02.285
Thyroid Screening Of Members Of The Public With Portable Nal Detectors After A Radionuclide Release From A Nuclear Power Plant <u>Hunt, JG</u> ; Kutkov, V	P02.286

Transformation of the Normal Distribution for Monte Carlo modeling of regions of Adult trabecular bones for use in Computational Models of Exposure Vieira, JW; Leal Neto, V; Lima Filho, JM; Lima, FRA	P02.287
Measurements of Air Kerma as function of potential in X-ray tubes for estimates standard quantities used for dosimetric evaluation Guimarães, CRP; Vieira, JW; Santos, MAP; Lopes Filho, FJ; Lima, FRA; <u>Ferreira Filho, AL</u>	P02.288
Review of Dosimetric Models of the Extrathoracic Airways for Internal Photon Emitters <u>Ocampo, JC</u> ; Puerta, JA; Morales, J	P02.289
Experimental Verification of TPS Software and Tabulated Data for Blocked Fields Ochieng.B ; Asad , Y; Zainab, R; Sherali, H	P02.290
The Interaction of Natural Background Gamma Radiation with Depleted Uranium Micro-Particles Located Deep in the Human Body Pattison, JE	P02.291
Shielding Evaluation for a Radiotherapy Bunker by NCRP 151 and Portuguese Regulation on Radiation Safety Rodrigues, MJP; <u>Poli, MER</u>	P02.292
Quantification of the Effect of Respiratory Motion on Efficiency Calibration for Internal Dosimetry Pölz, S; Schneider, T; Geckeis, H; Urban, M; <u>Leone, D</u>	P02.293
Comparison Between Simulation and Measurement of Activation Products in High-Energy Medical Linear Accelerators Saeed, MK; <u>Fischer, H</u> ; Poppe, B	P02.294
Proton Beam Characterization Using Monte Carlo Simulation Technique <u>Sriprisan, SI</u> ; Aghara, SK	P02.295
Modeling of Spontaneous Particle Sputtering from Plutonium Dioxide Material Bastrikov, VV; Khokhryakov, VV; <u>Zhukovsky, MV</u>	P02.296
Dose Rate Distribution from a Standard Waste Drum Arrangement <u>Zoeger N.</u> ; Brandl A,	P02.297













Poster ses	ssions C-D: Area 3	
Туре:	Poster Session	
Topic:	Topic: Radiation Protection System Development and Implementation	
Date and time:	Date and time: Wednesday 16 May 2012, 10:30-11:30 hours Thursday 17 May 2012, 13:15-14:15 hours	
Room:	Hall 4	
and Automated Ac	sive Approach for Information Management Iministration ni, A; <u>Kardan, MR</u> ; Shadi, N	P03.60
Some Aspects on to of Moldova Buzdugan, Al; Bala	the Nuclear Regulatory Issues in the Republic	P03.61
Proposed Methodo Radiological Prote	ology for Standardization on Evaluating ction System Implementation in Regulatory Jesearching Agenda	P03.62
•	PS Evaluation of Tissue and Non-Cancer	P03.63
Egypt	Gained in Radiation Protection Activities in	P03.64
	Guatemala, Central America (History) <u>ca, L</u> ; Toledo , M; Freire, D	P03.65
Comparison of Ind from National Reg Jug, N; Škrk, D	ividual Doses from Risk Assessments to Doses istry	P03.67
	on in Using the Mobile Hot Cell for the gh Activity Sealed Radioactive Sources	P03.68
	s on the Justification of X-Ray Body Scanners tory Status of Small Amount of Radioactive to Lamps	P03.69
	us Dose Constraints: a Concept Loses its Way Nuesser, A; Overheu, C; Wink, R	P03.70
Implementation of in Lithuania Mastauskas, A	f the system of public exposure assessment	P03.71
Evolution of Radia Experience Mod Ali, N	tion Protection Trends – the Malaysian	P03.72
Objects of the Mar		P03.73
The Way Forward f	or Implementation of new Recommendations	P03.74

REVIEW OF SAFETY AND SECURITY OF RADIOACTIVE SOURCES IN AFRICA	P03.75
Shadrack, AK	
Development and Implementation of the New Radiological	P03.76
Protection System in Russia	
Shandala, NK; Kiselev, MF; Shinkarev, SM; Romanov, VV	
Context effects on the Willingness to Pay for Mortality Risk	P03.78
Reductions from a Nuclear Accident: An analysis before the	
Fukushima Daiichi NPP Accident	
Takahara, S; Kato, T; Kimura, M; Nishikawa, M; Homma, T	
National Program of Radiation Protection of Patients (Argentina)	P03.79
Touzet, R; Buzzi, A	
The Binational Nuclear Energy Commission between Argentina	P03.80
and Brazil: its activities in the area of regulation and standards	
Terigi, GE; Acosta, GM	
HERCA Working Group on Medical Applications For Harmonizing	P03.81
the Implementation of Radiation Protection Regulation in	
Europe Bly P-Trueb P	
Bly, R; Trueb, P	DO2 02
Radiation Protection Research at the U S Nuclear Regulatory Commission	P03.82
Bush-Goddard, S	
Safety Regulation for the Design Approval of Radiation Devices	P03.83
Cho, WK	1 03.03
HASS Financial Provision – Lessons Learned And Shared	P03.84
Englefield, C; Williams , C; Balmer, D; Bowen, L; Shaw, T	1 03.04
Radiological Principles of Israeli Standard 5098 "Content of	P03.85
Natural Radioactive Elements in Building Products"	. 05.05
Haquin, G	
Radiation Exposure of Workers in Korea	P03.86
Lee, SH; Seo, GS; Choi, WC; Choi, MS; Kim, KP	
Informatization of Multi-Criteria Analysis Outranking: a	P03.87
Software to Improve Decision-making in Radiological Protection	
Optimization Programs	
Albuquerque, SM; <u>Levy, DS</u> ; Sordi, GMAA; Levy, PJ	
Sixty Years Experience on Safe Transport of Radiactive Material	P03.88
in Argentina	
Lopez Vietri, J; Rodriguez Roldán, M;	
Fernández, A; Gerez, C; Elechosa, C	
Regulatory Oversight - Challenges and Solutions	P03.89
Metcalf, P; Batandjieva, B	
Population Exposure to Radioactivity in Building Material:	P03.90
Comparison Between the EU Index I and Other Computational	
Methods	
Nuccetelli, C; Risica, S; Trevisi, R	D00.6:
Modern Trends and Problems in Radiation Protection System	P03.91
Pavlovski, O; Bolshov, L; Arutyunyan, R	D00.55
One Of The Implications Of Monetary Reference Value	P03.92
Perez, CFA; Sahyun, A; Sordi, GM; Ghobril, CN	
Technical Specification for a Safe use of the X-Ray Generators	P03.94
Fradin, J; Rodde, S	•













Withdrawal of Radioactive Sources Smoke Detectors used in	P03.95
France	
CHARPENTIER, Bruno; RODDE, Sylvie	
Some Inconsistencies in the IAEA Publication Entitled:	P03.96
"Optimization of Radiation Protection in the Control of	
Occupational Exposure"	
Sordi, GMAA; Perez, CDFA; Sahyun, A; Ghobril, CN	
Regulating Radiological Protection Aspects Of Great Britain's	P03.97
Nuclear Industry	
Temple, CE	
Argentine Regulatory Experience Related to the Application of	P03.98
$Specific \ Standards \ in \ the \ use \ of \ Radioactive \ Material \ in \ Industries.$	
<u>Truppa, W</u> ; Cordoba, M; Poletti, M; Calabria, M	
Can, And Should, The Management of Radiological Materials	P03.99
And Hazardous Chemicals Be Harmonised?	
<u>Valentin, J</u>	
Application of NEMA NU-3 for Intraoperative Gamma probes: A	P03.100
Cuban Experience	
<u>Varela Corona, C</u>	
Current Status of the International Standards on Radiation	P03.101
Protection Instrumentation	
<u>Voytchev, M</u> ; Chiaro, P	
A Cloud Approach To Environmental Radiation Protection Ethics	P03.102
Seymour, CB	
Has Protection Gone Too Far?	P03.103
Clark, SM	
HSE's Enforcement Management Model for Ionising Radiation	P03.104
Nettleton, MA	
The Compensation Culture	P03.105
Pinks, T; Frusher, M; Clark, S	

Poste	r sessions	C-D:	Area 6

Туре:	Type: Poster Session		
Topic:	Planned Exposure Situations: Industry and Research		
Date and time:	Wednesday 16 May 2012, 10:30-11:30 hours		
Date and time.	Thursday 17 May 2012, 13:15-14:15 hours		
Room:	Hall 4		
Implementation of International Guides and National Law for P06.38 Gamma Radiography in Germany <u>Sölter, B</u> ; Kaps, C; Redmer, B			
Food Control after a Major Nuclear Accident – the Need for P06.39 Harmonisation Janzekovic, H; Krizman, MJ			
Technical Specifications for Radiometric Screening Equipment at P06.40 Border Controls Barnes, JV; Major, RO; Berthou, V; Lishankov, V; Naumenko , M			
Leakage Testing Of Rolle, A; Neueyer, T	Sealed Radioactive Sources ; Droste, B	P06.41	

The Security of Radioactive Sources in the UK - The Perspective of the Radiation Protection Profession Tattersall, PJ: Croft, JR	P06.42
The Removal and Transport of High Activity Cobalt Sources from the University of Adelaide and the Royal Adelaide Hospital in AUSTRALIA Mayman, KA	P06.43
All Is Not What It Seems!Isotopes And Inventories Mayman, KA	P06.44
Implementation of a Quality Assurance Program for Assembly and Production of Sealed Radioactive Sources used in Industrial Applications Vasquez, PAS; Andrade e Silva, LG; Calvo, WAP	P06.45
Enhancing the Capability of Frontline Officers in Combating Illicit Trafficking of Radioactive Sources in Nigeria. <u>Umar, SD</u>	P06.46
Feedback of Experience in Industrial Radiography and Related French Regulation Projects on Justification and Accidents Response <u>Fontaine, G</u> ; Rodde, S	P06.47
The UK Approach To Security Of Radioactive Sources Englefield, C	P06.48
Improvement of the Buried Radioactive Source Situation at a Hospital in Cambodia <u>Popp, A;</u> Ardouin, C; Alexander, M; Blackley, R; Murray, A	P06.49
UK Surplus Source Disposal Programme John, GH	P06.50
Absorbed Dose Simulation During Handling Radioactive Sources in Well Logging Temporary Jobsites <u>Gomes, RDS</u> ; Gomes, JDRL; Costa, MLDL; Miranda, MVFES	P06.51
Dose Evaluation in Removal and Storage of Well Logging Sources Using an Anthropomorphic Phanton Simulator Miranda, MV FES; <u>Costa, ML de Lara</u> ; Gomes, J D'Arc RL; Gomes, R dos Santos	P06.52
Application of Phosphogypsum as a Material for Landfill Cover in Brazil <u>Jacomino, V</u> ; Taddei, MH; Cota, S; Silva Faria, D; Mello, J	P06.53
Occupational Exposure in Cleaning Tanks Containing Naturally Occurring Radioactive Material (NORM) in Offshore Oil Production. Jesus, JMF	P06.54
Demobilization of Offshore Oil Production Unit (FPSO) Contaminated with Naturally Occurring Radioactive Materials to Revamp and Changing of Location. Jesus, JMF	P06.55
Dose Reconstruction for F-104 Strafighter Maintenance Personnel <u>Kuipers, TP</u> ; De Koning, AS	P06.56













M	atural Radioactivity and Risks Associated with Mining of Rare etal Pegmatite of Oke-Ogun Field, Sepeteri, Southwestern,	P06.57
<u>Tc</u>	geria <u>hokossa, P</u> ; Tubosun, IA; Okunlola, GA;	
Ba	ılogun, FA; Fasai, MK; Ekhaeyembe, S	***************************************
Ur	amination Of The Environmental Radioactivity Nearby The anium Mining And Milling Facility <u>ov, AV</u> ; Kiselev, SM; Metlyaev, EG; Isaev , DV; Zhuravleva, LA	P06.58
In	idioactivity Assessment in Rare Earth Extraction and Steel dustry: A Study Case in Baiyun Obo, China <u>u, Q</u> ; Ma, C; Kong, X; Zhao, S; Feng, Y; Wang, X; Lou, J	P06.59
Ar	nalysis of Workers' Dosimetry of Industrial Gammagraphy in gentina onso Jimenez, MT; Pagni, I	P06.60
M	sessment of the radiological impacts of Gypsum, Ferro- anganese and Oil industries ıkr, HM; <u>Badran, HM</u> ; Sharshar, T; Elnimr, T	P06.61
Di	ternational initiatives addressing the safety and security of sused Sealed Radioactive Sources (DSRS) eard, RG	P06.62
	idiological Assessment of Black Powder in Sales Gas Pipelines <u>owie, M;</u> Worrall, M; Sherik, A; Mously, K; Nassar, R	P06.63
Ca	econtamination of NORM Contaminated Facilities & Equipment, use Study wie, M	P06.64
No	ndiological Characterization of Phosphate Rock and Soils of the orthern Region of Peru onzales, S; Osores, JM; Lopez, E; Jara, R	P06.65
Ex	ndiological Considerations of the BHP Billiton Olympic Dam pansion ondros, J	P06.66
	atabase on Naturally Occurring Radioactive Material r <u>aoka, K;</u> Kuroda, N; Shimomura, T; Tabe, H; Yonehara, H	P06.67
(Lo	rdiation Safety Systems for the Linac Coherent Light Source CLS) at SLAC <u>skni. S</u> ; Bauer, J; Santana-Leitner, M; Liu, J; Mao, S; Prinz, A	P06.68
Re Be	esidual Gamma Dose Rate Evaluation at the Radioactive Ion tam Facility SPES rchiapone, L; Zafiropoulos, D	P06.69
SP	idiation Safety of New X-ray Free Electron Laser Facility at Iring-8 <u>ano. Y</u> ; Itoga, T	P06.70
	diological Protection in Fusion Research at JET <u>mpling, D;</u> Macheta, P; Booth, S; Letellier, E	P06.71
Cy GI	eutron Fields Around the Joint Research Centre of Ispra clotron's Beam Lines <u>UFFRIDA, D</u> ; SIMONELLI, F; ABBAS, K; firopoulos, D; OSIMANI, C	P06.72
Fu	eliminary Assessment of Radioactive Waste for the DEMO sion Reactor <u>rrk, JS;</u> Shin, CH; Kim, SH; Lee, YS; Kim, JK	P06.73

Parameter considerations of Accelerator-based Sub-Critical Nuclear Reactor	P06.74
<u>Lee, HS</u> ; Kang, HS; Lee, TY	•
ANSI N43.1 Standard "Radiation Safety for the Design and Operation of Particle Accelerators" (Final Draft Sept. 2011) <u>Liu, J</u> ; Walker, S	P06.75
Commissioning and Critical Examination of a new PET Imaging Centre <u>Reeves, NJ</u>	P06.76
Survey of RF Test Facility During Cavity Conditioning <u>Doull, RE</u> ; Bonner, P	P06.77
Survey on Occupational Exposure in Industrial Radiography Practice Rosca Fartat, G; Ciupagea, F; Ghilea, S; Coroianu, Al	P06.78
Dose Planning and Evaluation During Reactor Repair van Tuinen, ST: Hoogeboom, N	P06.79
Occupational Exposure in Production of Radiopharmaceuticals and Labeled Compounds <u>Amador, ZH;</u> Pérez, S; Soria, MA	P06.80
Performance Safety Indicators for a Radioactive Facility in Cuba <u>Amador Balbona, ZH</u>	P06.81
Assessment of the Radiological Safety of Exposure Devices For Industrial Gamma Radiography in Argentina Ermacora, MG; Vidal, DN; Alonso, MT	P06.83
Applications Of Ionizing Radiation. Irradiation Of Biological Materials And Small Animals In Research Fernandez, MA; <u>Escudero, R</u>	P06.84
A Survey of Environmental Radioactivity Level in Laboratories of the Town Campus University, Uyo - Niger Delta Region <u>Esen, NU</u> ; Ituen, EE; Nwokolo, SC	P06.85
Technological Management Applied in Irradiation Foodstuff Ghobril, CN; Mastro, NL; <u>Sordi, GM;</u> Sahyun, A; Perez, CFA	P06.86
Laser Research Centre Eli Beamlines - Radioprotection Issues and Shielding Design <u>Olsovcova, V;</u> Griffiths, M; Haley, R; McFarlene, L; Rus, B	P06.87
X-Ray Security Body Scanners – Dose Optimisation and Other Considerations in their Use Macdonald, AR	P06.88
Optimization of a Bunker for Gamagraphy of Pipes with a Diameter of 2m <u>Sahyun, A;</u> Sordi, GM; Ghobril, CN; Perez, C F A	P06.89
Optimisation of Radiation Protection of Mobile Security Scanning Systems for Vehicles and Cargo Containers Equiped with Gamma Radiation Sources <u>Tudor, M;</u> Sima, C; Bizgan, A; Coroianu, AID; Popovici Vlad, O; Studineanu, E; Birsan, N; Munteanu, DP	P06.90
Transport of Radiopharmaceuticals and Labelled Compounds in Cuba Amador Balbona, ZH; Pérez Pijuán, S; Ayra Pardo, FE	P06.91
Actions To Reduce Denials And Delays Of Shipment Of Radioactive Material In Brazil Bruno, N; Alvim, TF	P06.92













Safe, Secure And Sustainable Transport Of Radioactive Material Capadona, N	P06.93
NECSA Waste to Vaalputs <u>Davids, W</u>	P06.94
Transportation of Nuclear Fuel Bundles - 15 Years of Experience in Nuclear Fuel Plant Pitesti Romania <u>Ivana, T</u> ; Epure, G; Olaru, V	P06.95
Some Questions About Reference Levels. As an Example the Segregation Distance for Package Containing Radioactive Material Transported in an Aircraft Sordi, GM; <u>Correa, FR</u>	P06.96

Poster sessions C-D: Area 7

rusiei sessiulis C-D. nied /		
Type:	Poster Session	
Topic:	Planned Exposure Situations: Medical	
Date and time:	Wednesday 16 May 2012, 10:30-11:30 h	nours
Date and time:	Thursday 17 May 2012, 13:15-14:15 hou	ırs
Room:	Hall 4	
Assessment Of The	t Dose Database For The Continuous • Medical Radiological Practice In Switzerland • Samara, E; Aroua, A; Verdun, F; Zeller, W	P07.54
	elding for CT Rooms from Patient Dose Data DG; Peet, DJ; Williams, JR	P07.55
Radiation Protection Improvement Hart, GC; Dugdale,	on in Dental X-Surgeries – Rooms for M	P07.56
Interventional X-R Keith, LS; Sears, ST Leidholdt, EM; Pau	ection Guidance for Diagnostic and ay Procedures ; Miller, DL; Hamdy, RC; novich, ED; Elmore, CL; G; Winston, J; Boyd, M	P07.57
Serbia: Physical an	the Mammography Screening Program in d Technical Aspects zarevic, D; Bozovic , P; Arandjic, D; Cekerevac, D	P07.58
9	ents within Medical Use of Radiation porn, A; <u>Waltenburg, HN</u>	P07.59
Radiology from Ur	Effective Dose to the Personnel in Diagnostic nder-Apron and Over-Apron Measurements Lachmund, J; Hoffmann, W	P07.60
	cal Radiation Protection of the Panoramic and n Dental X-ray Device n, J; Hefner, A	P07.61
Examinations in In	nil Kumar, JVK; Singh,	P07.62
An Investigation in Martin, CJ; Sookpe	nto CT Dosimetry using an Elliptical Phantom eng, S; Gentle, DJ	P07.63
Report	Shielding Recommendations in BIR/ IPEM n, DG; Martin, CJ; Peet, DJ	P07.64

Demonstration of Anatomical Imaging Using Neutron Radiography Cutright, D: Medich, D	P07.65
Diagnostic Reference Levels (DRL's) and Target Dose Levels in The Netherlands Zweers, D; Geleijns, J; Veldkamp, WJH	P07.66
Estimation of Half-Value Layer for Dual-Energy Computed Tomography Acquisition Using a New Copper Absorption Method	P07.67
<u>Matsubara, K</u> ; Mitsui, W; Iida, H; Mizukami, N; Matsumoto, C; Koshida, K; Matsui, O	
Patient Doses from X-ray Examinations in Denmark Højgaard, B; Torpenholt Jørgensen, U; <u>Waltenburg, HN</u>	P07.68
Radiation Dose Reduction Efforts in an Academic Medical Center $\underline{\sf Jacob, CHP, N}$	P07.69
Mean Glandular Dose Behavior Using Different Glandularity Phantoms <u>Leyton, F;</u> Oliveira, B; Oliveira, M; Nogueira, M; Paixão, L; Reynaldo, S; Silva, T	P07.70
Automated Collection of Patient Exposure Data : Recent Standards and Tools O'Donnell, KP	P07.71
Estimation of Effective Dose in Common X-ray Diagnostic Examinations in India <u>Sonawane, AU;</u> Sunil Kumar, JVK; Singh, M; Kulkarni, A; Pradhan, AS	P07.72
Trends in Patients' Exposure Doses during Radiographic Examinations in Japan Asada, Y; Kobayashi, K; Kobayashi, M; Matsunaga, Y; Otsuka, T; <u>Suzuki, S</u>	P07.73
Collective Doses of Bulgarian Population from X-ray and Nuclear Medicine Examinations: 2010 update <u>Vassileva, J</u> ; Ingilizova, K; Avramova- Cholakova, S; Hristova-Popova, J	P07.74
Dosimetry of CT and Image Quality in Oncology Patient: Comparison of Two National Institute of Cancer. <u>Orejuela Mosquera, D M;</u> Kodlulovich, S; Plazas, M C	P07.75
Preliminary Study Of Image Quality In MSCT Through Qualitative Parameters For Adult Abdomen Routine In Rio De Janeiro, Brazil. Soto, Y; Silveira, V; Delduck, R; <u>Mora, P</u> ; Kodlulovich, S	P07.76
Surveys of Radiographic Techniques for Radiation Shielding Calculations and Diagnostic Reference Level Determinations Chen, TR; Tung. CJ	P07.77
Radiation Dose measurements Survey During Hystrosalpingography in Sudan <u>Sulieman, A</u> ; Salih, I; Osman, H; Suliman, II	P07.78
Awareness and Efforts to Decrease CT Radiation Dose and Resultant CT Protocol Changes and Dose Reduction Jung, SE; Do, KH; Sung, DW	P07.79
Patient Radiation Doses from Radiographic Examinations in Korea <u>Sung, DW</u> ; Kim, YH; Lee, KN; Kim, KP	P07.80













Re-evaluation of the Use of Gonad Shielding for Patient X-ray Examinations	P07.81
<u>Thorne, AM</u> ; Sweetman, L; Theodorakou, C	-
CALDose_X online: Web-based, Real Time Monte Carlo Calculations for Patient Dosimetry in X-ray Diagnosis Kramer, R; Cavalcanti, A; Cassola, VF; Lins, RD; de Oliveira Lira, CAB; Khoury, HJ	P07.82
Validation of Software for Dosimetry of Patients Submitted to CT Examinations in Belo Horizonte, Brazil Gonzaga, NB; Mourão, AP; Magalhães, MJ; <u>da Silva, TA</u>	P07.84
Dose Reduction and Image Preservation After the Introduction of a 0.1 mm Cu Filter into the LODOX Statscan unit above 110 kVp	P07.85
Trauernicht, CJ; Rall, C; Perks, T; Maree, GJ; Hering, ER; Steiner, S	
Radiation Doses to Patients from Barium Meal and Barium Enema Studies in the Western Cape Province, South Africa <u>Kotze, TC</u> ; Nabasenja, C; Davidson, F; Engel-Hills, P	P07.86
Retrospective Radiation Dose Audit from Ghana's First 64 Multi- Slice Computed Tomography (Ct) Scanner Inkoom, S; Ntiri, TO; Togobo, J; Emi- Reynolds, G; Gyekye, PK; Oddoye, A	P07.87
Estimation Of The Number Of CT Procedures Based On A Nationwide Survey In Japan <u>Ono, K;</u> Yoshitake, T; Hasegawa , T; Ban, N; Kai, M	P07.88
Dosimetric Evaluation In Orthopedic Surgeries Guided By Fluoroscopy In Sergipe, Brazil Silva, DA; Lopes, AB; de Lima, MH; <u>Maia, AF</u>	P07.89
Patients Exposure Doses for CT examination in Japan 2011 <u>Matsunaga, Y;</u> Takikawa, Y; Otsuka, T; Kobayashi, M; Kataoka, Y; Yamada, M; Suzuki, S	P07.90
Analysis of Average Glandular Dose for Mammography in 2011 Questionnaire <u>Asada, Y;</u> Suzuki, S; Otsuka, T	P07.91
Patient Dose Reduction in common CT Examinations in Iran <u>Deevband, MR</u> ; Kardan, MR; Setayshi, S; Khosravi, HR; Sedaghat, S; Rashidi, A; Deevband, MR	P07.92
Use of CT Dosimetry Spreadsheet for Estimating the Effective Dose in Dental Cone Beam CT Batista, WO; Navarro, MVT; <u>Maia, AF</u>	P07.93
What You Should Know about Medical Radiation Exposure for Reducing Radiation Exposure: Check Your Knowledge as a Radiation Expert Do, KH; Oh, SY; Yeo, JS	P07.94
Validation of an Anthropomorphic Chest Phantom for Image Quality Control Tests and Dosimetry in Diagnostic Radiology Cerqueira, RAD; Silva, LM; Conceição, BM; Teixeira, CHC; Mota, CD; Rodrigues, TMA; <u>Maia, AF</u>	P07.95
Characterizing Canine Dose from Computed Tomography Irradiation Hall, CN; Johnson, TE	P07.96

Evaluation of the Scan Protocol in the measurements of Coronary Artery Calcium: Image Quality	P07.97
Gomes Oliveira, L; Gottlieb, I; <u>Kodlulovich, S</u> ; Lopes, R	
First Results on Patient Dose Measurements from Conventional Diagnostic Radiology Procedures in Montenegro Milatovic, A; Ciraj-Bjelac, O; Jovanovic, S; Spasic-Jokic, v	P07.98
Reference Doses for Dental Radiography Domingo Santamaría, E; <u>de las Heras Flores, R</u>	P07.99
Necessity to Update Radiation Dose Calculation Programs of Computed Tomography Lee, JK; Park, I; <u>Kim, KP</u>	P07.100
Australian Per Caput Doses from Diagnostic Imaging and Nuclear Medicine <u>Johnston, PN</u> ; Baldas, J; Hayton, AJM; Marks, PA; Wallace, AB	P07.101
Digital Repeat Analysis in Digital Mammography <u>Jakubiak, RR</u> ; Gamba, HR; Peixoto, JE; Munhoz, CM	P07.102
Methodology to Dose Optimization in Computed Tomography in the Routine of Chest Exams <u>Jakubiak, RR;</u> Komatsu, CV; Gamba, HR; Oliveira, CM; Wraslawiak, D; Escuissato, DL	P07.103
Effect of Reconstruction Algorithm Filter on Image Quality Adult Head Examination Silveira, VC; Delduck, RS; Kodlulovich, S	P07.104
Comparison of CT Dose Modulation Systems: Results in an Optimization Process <u>Delduck, R S;</u> Silveira, V C; Kodlulovich, S	P07.105
Determination Of Airkerma Values In The Group Of Most Frequent Radiographic Examinations Like A Basis For Patients Doses Estimation In Slovakia Zachar, ZL; Nikodemova, ND	P07.106
BEAMnrc Simulation to Assess the Absorbed Dose in Compact Tissue of Diaphysis of Long Bone Exposed by X-ray Beam <u>Salehi, Z;</u> Lutfi Yosuff, A	P07.107
Experimental Studies of X-ray Scatter in Diagnostic Radiology Birch, I	P07.108
Comparison of Mean Glandular Dose in a sample of patients from Colombia and Brazil Viloria, C; Gomes, DS; Puerta, A; Rezende, A; Oliveira, M; <u>Nogueira, M</u>	P07.109
The Activities Of Regulatory Authorities In Medical (Radiation) Practices And Their Potential To Influence Optimisation Of Medical Exposures Ebdon-Jackson, S	P07.110
Specification of Shielding Requirements for PET/CT facilities Peet, DJ; <u>Sutton, DG</u> ; Williams, JR; Martin, CJ	P07.111
Occupational External Radiation Dose to Personnel Involved in Veterinary Positron Emission Tomography Procedures <u>Martinez, NE</u> ; Kraft, SL; Ryan, SD; Johnson, TE	P07.114













Radiation Exposure to Medical Staff in Neuroradiology, Liver	P07.121
Chemoembolization and Pediatric Cardiac Interventional Procedures	
Khoury, HJ; Lunelli, N; Davilla, F; Andrade, G; Arrieta,	
SR; Andrade Lima, LF; Kramer, R; Nader, A	
Skin Surface Doses in Cardiac Interventional Procedures	P07.122
Measured in Latin America Facilities: Regional IAEA Program	
<u>Bitelli Medeiros, R;</u> Hiromi Murata, C; da Rocha, MS; Jamil Khoury, H; Mora, P; García Aguilar, Juan; Rivas Hidalgo ,	
Victor H.; Garay Henríquez, Fernando A; Nader, Alejandro	
Comparison of CT dose modulation systems:results in an	P07.123
optimization process	
Kodlulovich, Simone; Delduck, Romulo; Silveira, Vinicius	
Effect of Reconstruction Algorithm on Image Quality in Scanner	P07.124
GE Using ACR Accreditation Phantom	
Kodlulovich, Simone; Silveira, Vinicius; Delduck, Romulo	DO7 125
Individual Dose Estimation of the Medical Stuff in Interventional Treatment Using TLD Method	P07.125
Yu, Xirong; Zhang, Wei; Yang, Ke	
Effect of Reconstruction Algorithm on Image Quality in Scanner	P07.126
GE Using ACR Accreditation Phantom	
Silveira, V; <u>Kodlulovich, S</u> ; Delduck, R	
Is Magnetic Resonance Imaging Equally Effective In Detecting	P07.127
Intra-Ductal In Situ Breast Lesions As Of Mammography? <u>Shakir, H;</u> Shaffaque, S; Anwar, N; Faruqi, ZS	
Effective Dose Assessment In Pediatric Diagnostic Radiology In	P07.128
Antioquia Colombia	107.120
Morales , J; Jaramillo, W; Puerta, A	
Average Glandular Dose and Entrance Surface Dose in	P07.129
Mammography Kanada M. Kanada M. Garala M.	
<u>Kawaguchi, A</u> ; Kobayashi, M; Suzuki, M; Otsuka, T; Hattori, S; Suzuki, S	
Local Diagnostic Reference Levels for Common Radiographic	P07.130
X-ray Examinations	
Suliman, II; Mohammedzein, TS	
Evaluation of Patient Doses in Conventional ,Computed and	P07.131
Digital Radiography	
Osman, H; Sulieman, A; Mohamed- Ahmed, E	D07 133
Radiation Dose Reduction by using low dose CT Protocol of Thorax	P07.132
Popic Ramac, J; Knezevic, Z; Hebrang, A; Vidjak, V	
Adding an Aluminum Sheet to Copper Shield for Reducing the	P07.133
Absorbed Dose in Computed Tomography: a Pilot Study	
Matsubara, K; Koshida, K; Iida, H; Matsui, O	
Dosimetric Monitoring of Workers Exposed to Ionizing Radiation	P07.134
in Radiology Services in Burkina Faso, 2009-2011 <u>Traore, S</u> ; Yakoro, A; Ouedraogo, N	
Analysing of Absorption Characteristics of Lead-Free	P07.135
Manufactured Samples Using in Medical X Ray Application for	
Protecting Radiation	
Cetin, H	

Non-Medical Imaging Exposures: A Pilot Study Of The Italian Situation <u>Fattibene, P</u> ; De Angelis, C; Risica, S; Bonutti, F; Padovani, R	P07.136
Negatives Results In Radiological Examinations In Hospitals Of Peru -2010 Seminario, E; Bedoya, HA; Vereau, M; Montalvo, R; Arias Schreiber, ML; Hernandez, C; Castro, R; Manzaneda, M; Soto, A	P07.137
Medical Exposure Increase versus General Health Care Improvement – Contribution to the Discussion <u>Davídková, JD</u> ; Petrová, KP	P07.138
"Pregnancy": A New Justified Model for Better Radiation Protection in Diagnostic Radiology <u>Abdollahi, H</u> ; Teymuri, M	P07.139
Stakeholder Involvement in Medical Radiation Protection: A Report of the HERCA WG "Medical Applications" Concerning the Involvement of CT Manufacturers <u>Griebel, J</u> ; HERCA WG Medical Applications,	P07.140
French pluralistic Working Group « Patients Information for Diagnostic X-Rays Examinations » Julia, M-S.; <u>Lebeau, A.</u>	P07.141
Towards Safer and More Effective Use of Radiation in Healthcare – Results from European IRPA 2010 Bly, R; Czarwinski, R	P07.142
Evaluation of Patient Dose During Endoscopic Retragrade Challangiopancreatography <u>Sulieman, A</u> ; Elzaki, M	P07.143
Example of Patient Dose Optimization in Interventional Radiology <u>Etard, C;</u> Guersen, J; Rehel, JL; Chabrot, P; Cassagnes, L; Aubert, B; Boyer, L	P07.144
Evaluation Of The Dose To Skin Of Patients In Interventional Radiology With The Use Of Radiochromic Film <u>Labattu , M;</u> Guersen, J; Magnier , F; Chassin, V; Donnarieix, D; Chabrot, P; Cassagnes, L; Boyer, L	P07.145
The Identification, Communication & Use of Dose Constraints in the Optimisation of Interventional Radiology & Interventional Cardiology Procedures, & in the Training of the Interventional Staff. Brennan, AG	P07.146
Collaboration between IAEA and Latin-American Society of Interventional Cardiology regarding Radiation Protection <u>Duran, A</u> ; Vano, E; Nader, A	P07.147
Staff Doses in Interventional Cardiology and other Medical Practices in Sudan Attom, A; Shadad, I; Alkhawad, S; Yousif, E; Abdelrahman, A	P07.148
Calculation of Shielding for Interventional Rooms with Added Copper Filtration <u>Sutton, DG</u> ; Peet, DJ; Martin, CJ; Williams, JR	P07.150
Radiation Protection of Children During Chest X Ray Depending on Human Factor <u>Milkovic, D</u> ; Beck, N; Miljanic, S; Knezevic, Z; Ranogajec Komor, M; Garaj, V; Flegar, L	P07.151













Radiation Protection in Paediatric Interventional Cardiology in Latin America. Advances of the Regional IAEA program. <u>Vano, E;</u> Miranda, P; Ubeda, C; Leyton, F; Duran, A; Silva, C; Valenzuela, E; Garay, F; Heusser, F; Garcia, A; Duhagon, P; Nader, A	P07.152
Pediatric Exposition in Hemodynamics Services in the State of Bahia, Brazil Navarro, MVT; <u>Maia, AF</u> ; Navarro, VCC; Adriano, DD	P07.153
Evaluation Of Local Diagnostic Dose Reference Levels Arising From Paediatric CT Examination For Khorasan Province Bahreyni Toossi, MT; Abedi, H	P07.154
Head Radiation Dose from Pediatric CT Examination on Single and 64-slice CT Daros, KA; Kikuti, CF; <u>Medeiros , RB</u>	P07.155
CT-scan Irradiation: Protecting Patients by Means of Enhanced Medical Practice <u>Zand, T</u> ; Pugin, V	P07.156
Radiation Dose To Pediatric Patients in Computed Tomography in Sudan Sulieman, A; Omer, H; Salih, I	P07.157
Aspects Regarding Radiological Protection of Newborn Babies in an Intensive Therapy Unit Mossang, D; Dadulescu, E; Popa, M; Pera, C	P07.158
Risk of Cancer Associated with Cardiac Catheterization During Childhood: Setting up of a Cohort Study in France Baysson, H; Boudjemline, Y; Petit, J; Réhel, JL; Aubert, B; Laurier, D; Bonnet, D; <u>Bernier, MO</u>	P07.159
Use of Prospective Risk Analysis for Radiation Protection in Healthcare Janssen-Pinkse, LK	P07.160
Optimisation Of The Defecating Proctogram Ntentas, G; Lawinski, C	P07.161
Estimation of the Number of Ct Procedures Based on a Nationwide Survey in Japan <u>Ono, K</u> ; Ban, N; Kai, M	P07.162
Radiation Exposure to Staff in Interventional Procedures <u>Yue, B</u> ; Fan, Y; Lou, Y; Zhu, J	P07.163
Exposure Surface Dose of patients in TB Screen from Jiangsu Province of China Yu, N; Xu, X; Qin, Y; Wang, F	P07.164
Radiation Protecion in Cardiologic Theatre in Tunisian Hospital <u>Kamoun, H;</u> Hammou, A; Attia, N	P07.165
Evaluation Of Doses In Multidetector Computed Tomography Paraguay Villa, Y, Acosta Rengifo, N; ROMERO CARLOS,; RIVERO MENDOZA, M	P07.166
Radiation doses in head CT examinations in Serbia: comparison among different CT units <u>Arandjic, D</u> ; Ciraj-Bjelac, O; Hadnadjev, DR; Stojanovic, S; Bozovic, P	P07.167
National Program of Radiation Protection of Patients (Argentina) <u>Touzet, RE</u> ; Buzzi, AE; Cinat, E	P07.168

Dose and Risk Assessments for Clinical Trials involving Exposure to Ionising Radiation Wilkins, HB; Bissell, H; McClune, RE	P07.169
The European Medical ALARA Network - A European Initiative To Improve Engagement Of Stakeholders In The Medical Sector <u>Almén, A</u> ; Ducou le Pointe , H; Frank, A; Paulo, G; Griebel, J; Christofides , S; Leitz , W; Padovani, R; Schieber, C; Schmitt-Hannig , A; Vanhavere, F; Vock, P	P07.170
Information System for the Evaluation and Monitoring Services Mammography of the State of Minas Gerais Oliveira, MF; Ferreira, HR; Meira-Belo, LC; <u>Tavares,</u> <u>MSN</u> ; Joana, GS; Oliveira, M; Andrade, MC	P07.171
Radiological Protection and Quality Control of Diagnostic Radiology in China <u>Fan, Y</u>	P07.172
A New Method for Quality Assurance in Mammography and Tomosynthesis: Equivalence of Automatic and Visual Evaluation <u>de las Heras, HH;</u> Schöfer, FS; Chevalier Del Rio, MC; Tiller, BT; Zwettler, GZ; Semturs, FS	P07.173

Poster sessions L-U: Hrea 9		
Type:	Poster Session	
Topic:	Emergency Expsoure Situations	
Wednesday 16 May 2012, 10:30-11:30 hours Date and time:		
	Thursday 17 May 2012, 13:15-14:15 ho	ours
Room:	Hall 4	
Go Wrong Just May Irradiator Co-60 So	urce Loading Overexposure Event	P09.58
Greger, R; Goodma		
An Source Rebuild Monitor Data Xu, XJX; Yao, YRT; <u>Y</u>	Method with Genetic Algorithm Based on ang, YHT	P09.59
Sorption Characteristics of Radionuclides in Environmental P09.60 Aqueous Systems for Sorbents Fukutani, S; Kubota, T; Ohta, T; Takamiya, K; Fujiwara, K; Yoshinaga, H; Satta, N; Koyama, A		P09.60
Sellafield and the L	lorway after Hypothetical Accidents at .eningrad NPP oum Ytre-Eide, M; Thørring, H; Liland, A	P09.61
Meloxicam, an Inhi	lodulation of Acute Radiation Disease by ibitor of Cyclooxygenase-2 VI; Dušek, L; Hoferová, Z; iterová, L	P09.62
		P09.63













Plutonium Levels in Air and Vegetables from a Contaminated Area: A Review of Results and Estimation of the Related Inhalation and Ingestion Doses	P09.64
<u>Gutiérrez, J</u>	
· · · · · · · · · · · · · · · · · · ·	P09.65
Type of Nuclear Research Reactors	
Maciel Lopes, VML; Sordi, GMAAS; Madi, TMF; Moralles, MM	
Loss of Control of a High Activity Well-logging Source - The	P09.66
Lessons Learned	
Rodaks, G; <u>Thomas, G</u> ; Nettleton, M; Taylor, J	
Consequences of Burying or Cremating Radioactively	P09.67
Contaminated Fatalities	
Watson, S; Jones, KA; Mobbs, SF; Chen, QQ	

, 0,	M, Mobbs, SI, Chen, QQ	
Poster ses	sions C-D: Area 10	
Type:	Poster Session	
Topic:	Existing Exposure Situations	
·	Wednesday 16 May 2012, 10:30-11:30 h	ours
Date and time:	Date and time: Thursday 17 May 2012, 13:15-14:15 hours	
Daama		13
Room:	Hall 4	
Emerson, D	aging the MoD Radon Monitoring Programme	P10.37
Radon Regulations More Compulsory	s in Dwellings: Is it Time to Move Towards a Approach?	P10.38
Bochicchio, F	The second	
	adon and Radium Activity Measurements in /ater at the Federal University of Technology	P10.39
	<u>l</u> ; Paschuk, S; Schelin, H;	
Denyak, V; Perna, A		
	don Isotopes Content In Dwellings and Public	P10.40
Buildings of Russia	n Federation	
Stamat, IP; Korman	novskaya, TA	
Natural Radioactiv	ity In Ceramics	P10.41
Stamat, IP; Svetovi	dov, AV	
	I their Progenies in the Indoor Environment in	P10.42
•	ed in an old Public Building in Rome (Italy)	
	M; Leonardi, F; Tonnarini, S; Veschetti, M	D40.40
Indoor Radon Leve	els And Influencing Factors In Dwellings In	P10.43
	er, C; Zeghnoun, A; Vacquier, B;	
	is, O; Mandin, C; Lefranc, A	
	22 and Ra-22 in Environmental Samples	P10.44
	thod – Case of the U-mine Vinaninkarena,	
Madagascar		
Zafimanjato, JL; Ra	oelina Andriambololona, RA	
	Mitigation Action in Schools in South Italy:	P10.45
	ctiveness and Economical Considerations	
	, AP; Fernández, M; Leonardi, F;	
Leonardi, F; Tunno,	, T; Tonnarini, S; Veschetti, M	

The European Atlas of Natural Radiation – A status report <u>Gruber, V;</u> Tollefsen, T; De Cort, M; Bossew, P; Janssens, A	P10.46
Dose Reconstruction for National Radon Survey in Korea Using the Probabilistic Assessment Methodology Jang, HK; Kim, Y; Chang, BU; Cho, KW; Lee, JK	P10.47
Measurements of Concentration of Radon in Indoor and Outdoor air in Kumamoto Prefecture, Japan <u>Shimasaki, T</u> ; Kawahara, O; Shiraishi, Y; Gotoh, K; Kojima, A; Urano, T; Okada, S	P10.48
Study on Unattached Fraction of Radon Progeny and its Environmental Influence Factors Guo, L; Zhang, L; <u>Guo, Q</u>	P10.49
Long-Term Indoor Radon Measurements in the Chelyabinsk Region, Russia. <u>Marennyy, AM;</u> Andreev , NM; Gubin, AT; Sakovich, VA; Dmitriev, VA; Kiselev, SM; Marennyy, MA; Nefedov, NA; Penezev, AV; Schkuropat, DI	P10.50
Radon Regulatory Framework in Russian Federation: State of Affairs and New Challenges. <u>Kiselev, SM</u> ; Schinkarev, SM; Stamat, IP; Zhukovsky, MV; Gubin, AT; Marennyy, AM; Sakovich, VA	P10.51
National Action Plan 2011-2015 for Radon Risk Management in France Dechaux, E	P10.52
Investigation of air thoron (220Rn), radon (222Rn) and gamma radiation dose rates in an area rich in thorium (232Th) ore in Norway Mrdakovic Popic, J; Salbu, B; Skipperud, L	P10.53
Radon in Agricultural Workplace: Greenhouse Facilities Using Underground Air in Jeju Island, Korea <u>Chang, BU;</u> Kim, YJ; Song, MH; Jeong, SY; Kim, DJ; Kang, TW	P10.54
Preliminary Study On Radon Exhalation Rate of Natural Soils Of Western Crete Pantinakis, A; Markopoulos, T; Manoutsoglou, E	P10.55
Radon Levels in Manita Pec Cave (Croatian NP Paklenica) and Assessment of Effective Dose Received by Visitors and Tourist Guides Radolic, V; Miklavcic, I; <u>Poje, M</u> ; Stanic, D; Vukovic, B	P10.56
Practical Procedure for Routine Measurement of Radon Exhalation Rates from Building Materials <u>Mustapha. AO:</u> Al-Azmi, D	P10.57
Elevated Radon Concentration At The Entrance Of An Unused Old Coalmine Near An Urban Area, Western Crete, Greece <u>Pantinakis, A</u> ; Manoutsoglou, E; Markopoulos, T	P10.58
The Level and Distribution of 222Rn and 220Rn Concentrations in Soil Gas in the South of China Wang, N; Peng, A; Xiao, L; Yin, Y; Chu, X	P10.59
Indoor Radon Concentration in Schools and Kindergartens in Belgrade in 2010 <u>Eremic-Savkovic, M</u> ; Javorina, L; Tanaskovic, I; Pantelic, G	P10.60













Radon Concentration in Soil Gas and Radon Exhalation Rate	P10.61
in Some Areas of Ramsar in the North of Iran (High Levels of Natural Radiation Areas)	
Fathabadi, N; Kardan, M. R; Vahabi	
Moghaddam, M; Gholami, E; Moradi, M	
Local Authority Radon Measurement Programmes in Irish Social	P10.62
Housing	
Long, SC; Fenton, D; Dowdall, A	
The Effectiveness of Radon Preventive and Remedial Measures in	P10.63
Irish Social Housing	
Long, SC; Fenton, D	
Ventilation, Radon and Thoron: Results from a Dutch Survey	P10.64
<u>Dekkers, F</u> ; Blaauboer , R	
Indoor Radon Measurements in Some Dwellings and Workspaces	P10.65
in Morocco	
<u>Choukri, A</u> ; Hakam, OK	
Activity Concentration of Radon in Soils Before Building in	P10.66
Southwestern Region of Nigeria.	
<u>Ajayi, OS</u> ; Ibikunle, BS	
Indoor Thoron Progeny Measurements in High Background	P10.67
Radiation Area of Orissa, India	
Ramola, RC; Prasad, G; Gusain, GS; Rautela,	
BS; Sahoo, SK; Tokonami, S	
Distribution of Radon Exhalation Rate from the Soil Surface in	P10.68
Japan	
Hosoda M.; Ishikawa T.; Sorimachi A.; Sahoo SK.;	
Takahashi H,; Shiroma Y,; Furukawa M,; Tokonami S,	
An Analysis of Radon Remedial Measures	P10.69
Hodgson, SA	D40 ==
Construction of Natural Radiation Exposure Study Network	P10.70
Achievements and Future Directions Tokonami St Sprimachi At Omori V. Janik M. Ichikawa T. Sahoo	
<u>Tokonami, S;</u> Sorimachi, A; Omori, Y; Janik, M; Ishikawa, T; Sahoo, SK; Yoshinaga, S; Yonehara, H; Sakai, K; Yamazawa, H; Akiba,	
S; Furukawa, M; Sun, Q; Kim, YJ; Chanyotha, S; Ramola, RC	
Risks from Radon	P10.71
Higson, DJ	1 10.71
Practical Issues in Retrospective Estimation of Long-Term Radon	P10.72
Exposure with Lead-210 in Household Dust	1 10.72
Chen, J; Zhang, W; Jiao, A	
Measurements of Radon Entry Parameters in the Buildings	P10.73
Zhukovsky, MV; Vasilyev, AV	1 10.73
Climatic and Seasonal Influences on Radon Time Series in an	P10.74
Environment of Low Anthropogenic Activity	1 10.74
Groves-Kirkby, CJ; Crockett, RGM; <u>Denman, AR</u> ; Phillips, PS	
Activity Concentration of 222Rn Measured in Drilled and	P10.75
Dug Well Drinking Waters and Resulting Radiation Doses to	1 10.75
Population of Ogun State, Nigeria.	
Ajayi, OS	
Cost Effectiveness of Radon Protection in New Homes in the	P10.76
Newly Defined Small Radon Affected Areas	
Denman, AR; Sinclair, J; Phillips, PS; Groves-Kirkby, CJ	

Indoor Radon Exposure in Belarus	P10.77
Kanapelka, MV; Yaroshevich, OI; Zhuk, IV; Karabanov,	
AK; Matveev, AV; Vasilevsky, LL; Lukashevich, JA	
The Impact of improved Radon Mapping on the Cost	P10.78
Effectiveness of UK Domestic Radon Remediation Initiatives for	
Existing Housing	
Denman, AR; Sinclair, J; Phillips, PS; Groves-Kirkby, CJ	
An Aid to the Study of the Behavior of Radon and Air Pollutants	P10.79
in the Atmospheric Boundary Layer	
Kataoka, T; Yunoki, E; Shimizu, M; Mori, T; Tsukamoto, O;	
Takahashi, S; Fudeyasu, H; Iwata, T; Ohashi, Y; Sahashi, K; Maitani,	
T; Miyashita, K; Sasaki, T; Fujikawa, Y; Kudo, A; Shaw, RH	
Evaluation of Indoor Radon Level Due to High - Exposure	P10.80
Building Material Used in Iran	
Abbasi, A; Mirekhtiary, F	
Presence of a Radioactive Gas in Archeological Excavations,	P10.81
Determination and Mitigation	1 10.01
Balcazar, M; Gomez, S; Peña, P; Zavala-Arredondo, J; Gazzola, J	
Environmental Risk Assessment of Radon from Ceramic Tiles	P10.82
Maged, AF; Nada , LAM; Lotfi , ZI	F 10.02
	D10 02
Aspects Of Health Defence In the Environmental Radiation Protection From Radon	P10.83
Pennarola, E; Trinchese, P; Caggiano, A; Di Matteo,	
R; Di Palma, P; Iacoviello, P; <u>Pennarola, R</u>	
	D10 04
The mesurment of radon in the environment: publication of a	P10.84
new ISO standard	
Calmet, D; Améon, R; Beck, T; De Jong, P; Herranz, M;	
Klett, A; Michel, R; Richards, T; Schuler, C; Tokonami, S;	
Woods, M; Jiranek, M; Rovenska, K; Duda, JM; Haug, T	D40.05
Low Energy Construction, Ventilation Strategies and Indoor	P10.85
Radon	
Arvela, H; Holmgren, O; Reisbacka, H	
A Novel Estimation of the Exposure of the Population of Israel to	P10.86
Natural Sources of Ionizing Radiation	
Epstein, L; <u>Koch, J</u> ; Haquin, G; Orion, I	
Exposure to Radon from Concrete with Fly Ash: a Proposed	P10.87
Model, In-Situ and Laboratory Measurements.	
<u>Haquin, G;</u> Kovler, K; Becker, R	
Living in an excavated housing. Relationship between	P10.88
typological features and indoor radon in underground dwellings.	
Creville	
Piedecausa García, B	













Poster ses	sions C-D: Area 11	
Туре:		
	Protection of the Environment	
Data and times		ours
Date and time:		rs
Room:	Hall 4	
Nearby the Site for Peninsula	uclides in the Soil and Vegetation Covering SNF and RW Temporary Storage on Kola chelkanova, ES; Novikova, NYa; Filonova, AA	P11.01
•	egulations for Remediation of the Sites for	P11.02
Temporary Storage Waste	of the Spent Nuclear Fuel and Radioactive	111.02
Different Levels of	Seeds' Viability From Water-Bodies With Radioactive Contamination Isova, NL; Gudkov, Dl	P11.03
Long-Term Effects of the Low-Level Radiation Exposure on P11.04 Aquatic Biota within the Chernobyl Exclusion Zone Gudkov, DI; Shevtsova, NL; Dzyubenko, EV; Pomortseva, NA; Nazarov, AB		
High Natural Background Radiation Areas and Interaction P11.05 between Nature, Scientists and Public Abdollahi, H; Teymuri, M		
Structure Of The Co Radiation Silva, JM; Villar, HP;	ell Wall Of Mango After Application Of Ionizing Pimentel, RMM	P11.06
An Anthropocentri Radioprotection of Cedervall, B; Mothe		P11.07
Slag and Ashes	ecific Local Ecosystem Arised on the Tenorm Hajdinjak, M; Cerovac, Z	P11.08
Pondicherry, South	cumulation of 210Po in the Biota of 1 East Coast of India yed Mohamed, HE; Meera Maideen, M	P11.09
	of a 25-Year Low-Dose Chronic Exposure on nts of the Chernobyl Exclusion Zone Ikov, DI	P11.10
Reservoirs With A I Pryakhin, EA; Tryap	sessment Of Ecosystems Conditions Of Different Levels Of Radioactive Contamination bitsina, GA; Deryabina, LV; Andreev, SS; ukalov, PM; Kostyuchenko, VA; Akleyev, AV	P11.11
	oosited radiocaesium and radiostrontium in and <i>Tríticum aestívum</i> L. én, K	P11.12

Combined Action of Radiation and Mercury on DNA Damage

and Repair in Coelomocytes of Earthworms

Kim, JK; Ryu, TH; Nili, M

P11.14

Determination of 238U, 232Th and 40K in Zircon Sand Products from a Processing Plant in Brazil	P11.15
Hazin, CA; Gazineu, MHP; Farias, EEG; Honorato, EV	
Measuring U-238 and U-235 Decay Products By the Spectrometer PRIPYAT-2M	P11.16
Svrkota, N; Antovic, NM; Andrukhovich, SK	
Radiocesium in Mycorrizhal Macro Fungi in Finnish Lapland in 1980-2011 Ylipieti, J; Rissanen, K	P11.17
Determination of Uranium in Soil by KPA using Diphonix® resin Grinman, ADR; Giustina, D; Mondini, JM	P11.18
Temporal Evolution of the Spanish Labs Intercomparisons in the Radionuclides Determination in Environmental Samples Gasco Leonarte, C; Trinidad, JA; Suarez Navarro, JA; Romero, L; Valino, F; Llaurado, M; Salas, R; Barrera, M	P11.19
Importance of Meteorological Condition on Environmental effect of Radioactive Material from a Nuclear Facility <u>Han, MH;</u> Hwang, WT; Jeong, HJ; Kim, EH	P11.20
Characterization of Artificial Radionuclides and Sedimentation in Sediment Core of Crater Lake, Baengnokdam of Mt. Halla, Korea Yim, SA; Byun, JI; Ko, SH; Kang, TW; Yun, JY	P11.21
Concentrations of Radionuclides in Soil and Assessment of the Environmental Gamma Dose <u>Pantelic, G;</u> Eremic-Savkovic, M; Vuletic, V; Marinkovic, O	P11.22
Radionuclide Concentration Factors in the Mullet (Mugilidae) Species Mugil cephalus - from Seawater, Sediment and Mud with Detritus Antovic, NM; Antovic, I	P11.24
Environmental Impact of Radioactive Discharges from the Ringhals Nuclear Power Plants into the Kattegat Sea Sundell-Bergman, S; Weimer, R; Aronsson , D	P11.25
Providing Access to Environmental Radioactivity Measurements During Crisis and in Peacetime: Two Tools Developed in France by IRSN	P11.26
<u>Leprieur, F</u> ; Manificat, G; Guldner, B; Couvez, C	
Inventories, Input, and Transport of Iodine Isotopes in Germany Daraoui, A; <u>Schwinger, M</u> ; Riebe, B	P11.27
lodine-129 And lodine-127 In Seawater Of The North Sea And In Precipitation From Northern Germany <u>Daraoui, A</u> ; Michel, R; Gorny, M; Jakob, D; Sachse, R; Tosch, L; Nies, H; Goroncy, I; Herrmann, J; Synal, HA; Stocker, M; Alfimov, V	P11.29
Radionuclides Contamination Within 60 Km from The Fukushima Daiichi Nuclear Power Complex after the Accident On March 11, 2011 Momoshima, N; Sugihara, S; Ichikawa, R; Maekawa, A; Matsuzaki, T; Kawamura, H	P11.30
Participation of the IFIN-HH Dosimetry Laboratory for Personnel and Environment (LDPM) at the Proficiency Test AOUACHECK-2011.	P11.31













Impact of Refuelling of the Krsko Nuclear Power Plant on the 14C Activity in the Atmosphere and Plants <u>Krajcar Bronić, J.</u> ; Obelić, B; Horvatinčić, N; Sironić, A; Barešić, J; Rajtarić, A; Breznik, B; Volčanšek, A	P11.32
Dose Rate Measurements of the Phosphogypsum Deposition Site and the Surrounding Environment Bituh, T; Marovic, G	P11.33
Improved System for Collecting Stack Samples for Tritium and Carbon-14 Analysis Wahl, LE; Jelinski, J	P11.35
137Cs Inventory in South Adriatic Petrinec, B; Franic, Z	P11.36
"Data Mining" Of Environmental Radioactivity Surveillance Data Fischer, HW	P11.37
Dose Assessment to Marine Biota: Evaluation of Key Environmental Parameters losipe, M	P11.38
Radiation and Ecological Conditions of the Offshore Waters nearby the Site for SNF and RW Temporary Storage at Andreeva Bay Shchelkanova, ES; Filonova, AA; Titov, AV; Seregin, VA; Semenova, MP	P11.39
Strontium Biokinetic Model For Mouse-Like Rodent Malinovsky, GP; Yarmoshenko, IV; <u>Zhukovsky, MV</u>	P11.40
Assessment of Environmental Radioactivity in Natural Food Products from Northern Norway Gwynn, JP; Eikelmann, IM; Møller, B; Nalbandyan, A; Nilssen, J; Rudolfsen, G	P11.41
137Cs Distribution in the Northern Adriatic Sea(2006-2011) Pavičić-Hamer, D; Barišić, D	P11.42
Radiological Impact of the Hukushima Nuclear Accident on the Human and Biota in the Republic of Korea <u>Keum, DK</u> ; Jun, I; Lim, KM; Choi, YH	P11.43
High Background Radiation Area and Environmental Protection Programme Zakeri, F; Akbari Noghabi, K; Sadeghizadeh, M; Kardan, MR	P11.44
Long-term Management in Norway, 1986-2011. Use of Caesium Binders and Special Feeding Program to Reduce Radiocaesium Concentration in Grazing Animals Gjelsvik, R	P11.45
Radiation Protection Considerations in the Primary Approval Phases of Major Projects Hondros, J	P11.46
Regulatory Radiation Protection Inspections at the Koeberg Nuclear Power Station (KNPS): Ensuring the safety of workers, the public and environment. Majola, VKA	P11.47
Investigation of a Pollutant Behavior in Coastal Area by using a Hydraulic Prototype Model Park, GH; Kim, KC; Lee, JY; Lee, JL; Suh, KS	P11.48

The Radiological Characterization of the Dosimetry Secondary Standard Center of IFIN-HH, Bucharest, Romania <u>Stochioiu, A</u> ; Bercea, S; Celarel, A; Tudor, I	P11.49
Using Modelling and Measuring Toolq to Build Relevant Environmental Monitoring Programmes Mercat, C; Baldassarra, C	P11.50
Environmental Radioactive Air Sampling and Monitoring Program Considerations Barnett, JM	P11.51
Strengthening Environmental Radiation Monitoring Around Kwale Titanium Mining Site in Kenya Shadrack, AK	P11.52

Shadrack, AK				
Poster ses	sions C-D: Area 12			
Type:				
Topic:				
Wednesday 16 May 2012, 10:30-11:30 hours				
Date and time:				
Room:				
Lessons for Health Accident Singh, V; Managan	Physics Professionals after Fukushima Dai-Ichi vi, SS	P12.01		
Measuring Bodies <u>Gerstmann, UC</u> ; Fis P; Sonnenschein, V S; Leisner, B; Eschn	In-vivo measurements at German Competent Incorporation P12.02 Measuring Bodies in the wake of Fukushima Gerstmann, UC; Fischer, P; Breustedt, B; Lohnert, D; Bartenstein, P; Sonnenschein, W; Niggerman, G; Mester, J; Kriens, M; Loscher, S; Leisner, B; Eschner, W; Geworski, L; Keller, KD; Neudert, N; Spross, T; Lassmann, M; Kirchner, U; Lieberz, W; Hill, P			
	ents at German Competent Incorporation in the wake of Fukushima	P12.03		
Openness to societ Repussard, J; Rollin	ty in the context of Fukushima accident nger, F	P12.04		
Risk Perception Tov Fukushima 2011 Chang, P	ward Nuclear Power in Taiwan After	P12.05		
3	na Fallout in Germany – Data and Models erová, D; Ulbrich, S; Hettwig, B	P12.06		
And Radiation Eme	IBRAE RAN In Scientific And Technical Support ergency Response ov, L; Arutyunyan, R; Osipiyants, I; Panchenko, ulyaev, A; Krasnoperov, S; Aron, D; Zaryanov, A	P12.07		
Construction of Pre Region Saito, K	ecise Contamination Maps in the Fukushima	P12.08		
	d Calculations of Beta Dose Rates on the und at the Fukushima Daiichi Nuclear Power da, T; Furuta, S	P12.09		
Information: Lesso Bigot, MP; <u>Baumor</u>	ns learnt from Fukushima crisis nt, G	P12.10		













Temporal Changes of Transfer of Fallout Radionuclides by Fukushima NPP Accident from Tree Crown to Litter Layer a Forest Soil <u>Yuichi, O</u> ; Kato, H; Wakahara, T; Tsujimura, M; Kawamori, A	P12.11 nd
Artificial radionuclides in the troposphere of Seville (Spain to the Fukushima accident, associated fallout and impact of trophic chain García-Tenorio , R.; Manjón, G.; Mantero, J.; Vioque, I.; Galvá	on the
Fallout Of 131l, 134CS And 137CS In Southern Sweden, Following The Fukushima Nuclear Accident Ören, ÜÖ; <u>Hansson, MH</u> ; Rääf, CLR	P12.13
Egyptian Guidelines for Goods Imported from Japan After Fukushima accident Gomaa, MAM; Abdelazim, ME; El Fouly, H	P12.14
Radioactivity of Aerosol and Fallout in Belgrade – Consequof Fukushima Reactor Accident Nikoliæ, J; Panteliæ, G; Todoroviæ, D; Jankoviæ, M	uences P12.15
Experiences in Japan - Providing Radiation Protection Adv in a Crisis <u>Patel, B</u> ; Kockerols, P	ice P12.16
The Fukushima Accident Through the "Corriere Della Sera" Website GIUFFRIDA, D	P12.17
Environmental Consequences of Major Nuclear Accidents: IAEA Outlook on Lessons Learned <u>Berkovskyy, V</u> ; Telleria, D; Proehl, G	The P12.18
The Fukushima Accident: Reflection in the Media and the F Opinion in Belgium Perko, T; <u>Turcanu, C</u> ; Geenen, D	Public P12.19
Monitoring the External and Internal Contamination of Pe Returning from Japan to Belgium after the Fukushima Nuc Accident. Camps, J; <u>Lebacq, AL</u> ; Vidmar, T; Vanhavere, F; Perko, T; van der Meer, K; Verledens, A; Willems, P; Van Bladel, L; Vandecasteele, C; De Beule, K	•
Evaluation of Internal Exposure of the Worker and the Resi Caused by the Fukushima Nuclear Accident Takada, C; Kurihara, O; <u>Tsujimura, N</u> ; Kanai, K; Nakagawa, T; Miyauchi, H; Murayama, T; Maruo, Y; Momose, T; Furuta, S	
Landscape-Level Model Predictions Of 131I, 134Cs And 13 Transfer Through Terrestrial Systems In The 80-Km Fukushi Daiichi Area Using The Symbiose Platform Gonze, MA; Simon-Cornu, M; Metivier, JM; Garcia-Sanchez, L; Mourlon, C; Parache, V	
Learning From Experience at Fukushima: A UK Regulatory Perspective on Flood Risk Assessment and Management Mayall, A; Allmark, TB; Hill, R; Ford, PJ; McGoff, A; Fadipe, D	P12.24
The Importance of the Time-Series in the Determination of the Influence of the Accidental Radioactive Contamination "Fuskushima" Detection in Madrid <u>Gasco Leonarte, C;</u> Simon, MA; Heras, MC; Trinidad, JA; Suarez, JA; Suanez, AM; Caro, A; Romero, B; Fernandez, E; Sanz, B; Diaz, MB; Arana, FM; Garcia, JA; Gonzalez, A; Garcia, JA; Jimenez, JA; Hernaiz, G	
. , , , . ,	

The Particle Size Distribution Of Radioactive Aerosols After The Fukushima Accident Mala, H; Rulik, P; Mihalik, J; Hyza, M RPII Radiation Monitoring Section Response to the Fukushima Accident and Lessons Learned Currivan, L; McGinnity, P; Kelleher, K; Somerville, S; Hanley, O; O'Colmáin, M; León Vintró, L; McMahon, C Development of KURAMA and the Car-borne Survey in Fukushima Tanigaki, M; Okumura, R; Takamiya, K; Sato, N; Yoshino, H; Yoshinaga, H; Yamana, H Learning From Experience At Fukushima: A UK Regulatory Perspective on Emergency Preparedness Attwood, CA; Little, S; Watson, I Arrangements for Nuclear Emergency Preparedness and Response in the UK – Lessons Learnt from Fukushima Dicks, PJ; Little, S; Temple, C; Etheridge, B; Powell, B; Mayor, A Special Environmental Monitoring Around Tokai-mura after the Accident of the Fukushima Dai-ichi Nuclear Power Station Fujita, H; Nagaoka, M; Kono, T; Kawasaki, M; Okura, T; Tsujimura, N; Sumiya, S; Momose, T; Furuta, S Wet deposition of radionuclides and assessment of scavenging coefficients in France following the Fukushima accident Depuydt, G Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, Q; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat, P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Contaminated Water by the Fukushima Nuclear Accident Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT, Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, L; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident LJammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses An		
RPII Radiation Monitoring Section Response to the Fukushima Accident and Lessons Learned Currivan, I.; McGinnity, P.; Kelleher, K; Somerville , S; Hanley , O; O'Colmáin, M; León Vintró , L; McMahon, C Development of KURAMA and the Car-borne Survey in Fukushima Tanigaki, M; Okumura, R; Takamiya, K; Sato, N; Yoshino, H; Yoshinaga, H; Yamana, H Learning From Experience At Fukushima: A UK Regulatory Perspective on Emergency Preparedness Attwood, CA; Little, S; Watson, I Arrangements for Nuclear Emergency Preparedness and Response in the UK – Lessons Learnt from Fukushima Dicks, P!; Little, S; Temple, C; Etheridge, B; Powell, B; Mayor, A Special Environmental Monitoring Around Tokai-mura after the Accident of the Fukushima Dai-ichi Nuclear Power Station Eujita, H; Nagaoka, M; Kono, T; Kawasaki, M; Okura, T; Tsujimura, N; Sumiya, S; Momose, T; Furuta, S Wet deposition of radionuclides and assessment of scavenging coefficients in France following the Fukushima accident Depuydt, G Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat , P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, L; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident Llammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	Fukushima Accident	P12.26
Accident and Lessons Learned Currivan, L; McGinnity, P; Kelleher, K; Somerville , S; Hanley , O; O'Colmáin, M; León Vintró , L; McMahon, C Development of KURAMA and the Car-borne Survey in Fukushima Tanigaki, M; Okumura, R; Takamiya, K; Sato, N; Yoshino, H; Yoshinaga, H; Yamana, H Learning From Experience At Fukushima: A UK Regulatory Perspective on Emergency Preparedness Attwood, CA; Little, S; Watson, I Arrangements for Nuclear Emergency Preparedness and Response in the UK – Lessons Learnt from Fukushima Dicks, D; Little, S; Temple, C; Etheridge, B; Powell, B; Mayor, A Special Environmental Monitoring Around Tokai-mura after the Accident of the Fukushima Dai-ichi Nuclear Power Station Equita, Li; Nagaoka, M; Kono, T; Kawasaki, M; Okura, T; Tsujimura, N; Sumiya, S; Momose, T; Furuta, S Wet deposition of radionuclides and assessment of scavenging coefficients in France following the Fukushima accident Depuydt, G Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, Q; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat , P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, IT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident LJammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	i	D12 27
Currivan, L; McGinnity, P; Kelleher, K; Somerville , S; Hanley , O; O'Colmáin, M; León Vintró , L; McMahon, C Development of KURAMA and the Car-borne Survey in Fukushima Indigati, M; Okumura, R; Takamiya, K; Sato, N; Yoshino, H; Yoshinaga, H; Yamana, H Learning From Experience At Fukushima: A UK Regulatory Perspective on Emergency Preparedness Attwood, CA; Little, S; Watson, I Arrangements for Nuclear Emergency Preparedness and Response in the UK – Lessons Learnt from Fukushima Dicks, PJ; Little, S; Temple, C; Etheridge, B; Powell, B; Mayor, A Special Environmental Monitoring Around Tokai-mura after the Accident of the Fukushima Dai-ichi Nuclear Power Station Fujita, H; Nagaoka, M; Kono, T; Kawasaki, M; Okura, T; Tsujimura, N; Sumiya, S; Momose, T; Furuta, S Wet deposition of radionuclides and assessment of scavenging coefficients in France following the Fukushima accident Depuydt, G Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat, P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, T: Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident Elammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 P12.40 Reveal A Low Doses And Low Dose Rates Nuclear Incident		P12.27
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Yoshino, H; Yoshinaga, H; Yamana, H Learning From Experience At Fukushima: A UK Regulatory Perspective on Emergency Preparedness Attwood, CA; Little, S; Watson, I Arrangements for Nuclear Emergency Preparedness and Response in the UK – Lessons Learnt from Fukushima Dicks, PJ; Little, S; Temple, C; Etheridge, B; Powell, B; Mayor, A Special Environmental Monitoring Around Tokai-mura after the Accident of the Fukushima Dai-ichi Nuclear Power Station Fujita, H; Nagaoka, M; Kono, T; Kawasaki, M; Okura, T; Tsujimura, N; Sumiya, S; Momose, T; Furuta, S Wet deposition of radionuclides and assessment of scavenging coefficients in France following the Fukushima accident Depuydt, G Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat , P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, J; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		
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Response in the UK – Lessons Learnt from Fukushima Dicks, PJ; Little, S; Temple, C; Etheridge, B; Powell, B; Mayor, A Special Environmental Monitoring Around Tokai-mura after the Accident of the Fukushima Dai-ichi Nuclear Power Station Fujita, H; Nagaoka, M; Kono, T; Kawasaki, M; Okura, T; Tsujimura, N; Sumiya, S; Momose, T; Furuta, S Wet deposition of radionuclides and assessment of scavenging coefficients in France following the Fukushima accident Depuydt, G Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat, P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	Attwood, CA; Little, S; Watson, I	
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Special Environmental Monitoring Around Tokai-mura after the Accident of the Fukushima Dai-ichi Nuclear Power Station Fujita, H; Nagaoka, M; Kono, T; Kawasaki, M; Okura, T; Tsujimura, N; Sumiya, S; Momose, T; Furuta, S Wet deposition of radionuclides and assessment of scavenging coefficients in France following the Fukushima accident Depuydt, G Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat, P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	•	
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Tsujimura, N; Sumiya, S; Momose, T; Furuta, S Wet deposition of radionuclides and assessment of scavenging coefficients in France following the Fukushima accident Depuydt, G Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat , P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, J; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		
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Spatial and Temporal Evolutions of the Airborne 137Cs Level at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat , P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the P12.37 Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, L; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	3	
at European Scale after Fukushima and Comparison with the Situation after Chernobyl Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat , P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the P12.37 Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, L; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		
Situation after Chernobyl Masson, Q; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat , P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the P12.37 Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, J; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	•	P12.33
Masson, O; Depuydt, G; Gurriaran, R; De Vismes-Ott, A; Paulat , P; Saey, L Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	·	
Food Safety Regulations Implemented Following the Fukushima Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Pl2.38 Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	*	
Nuclear Accident Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 P12.40 Reveal A Low Doses And Low Dose Rates Nuclear Incident	Vismes-Ott, A; Paulat , P; Saey, L	
Hamada, N; Ogino, H Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Pikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	, , , , , , , , , , , , , , , , , , , ,	P12.34
Decontamination of the Contaminated Water by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, J; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		
Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		D40.05
Ohtani, H; Lu, X; Fukushi, M; Nyui, Y Decontamination of the Ground by the Fukushima Nuclear Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, J; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	•	P12.35
Accident. Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		
Ohtani, H; Lu, X; Fukushi, M Comparison of Radioactive Fallout in the United States from the P12.37 Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, J; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	-	P12.36
Comparison of Radioactive Fallout in the United States from the P12.37 Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima P12.38 Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	Accident.	
Fukushima and Chernobyl Accidents Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, J; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	Ohtani, H; Lu, X; Fukushi, M	
Harris, JT; Miller, DW; Flegel, SW; Jensen, J Airborne Radioiodine In Northen Serbia From Fukushima Bikit, J; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		P12.37
Airborne Radioiodine In Northen Serbia From Fukushima Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident	•	
Bikit, I; Todorovic, N; Mrdja, D; Nikolov, J; Krmar, M; Veskovic, M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		D12 20
M; Slivka, J; Hansman, J; Forkapic, S; Jovancevic, N Analysing The IRSN Risk Perception Barometer After The Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		F12.30
Fukushima Nuclear Accident El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 Reveal A Low Doses And Low Dose Rates Nuclear Incident		
El Jammal, MH In-Situ Dose Evaluations For Fukushima Population In 2011 P12.40 Reveal A Low Doses And Low Dose Rates Nuclear Incident	Analysing The IRSN Risk Perception Barometer After The	P12.39
In-Situ Dose Evaluations For Fukushima Population In 2011 P12.40 Reveal A Low Doses And Low Dose Rates Nuclear Incident		
Reveal A Low Doses And Low Dose Rates Nuclear Incident		
		P12.40
Turada, 21		
	Turkou, 71	













P12.41
P12.42
P12.43
P12.44
P12.45
P12.46
P12.47
P12.48
P12.49
P12.50
P12.51
P12.52
P12.53
P12.54

Towards Comprehensive Radiological Protection for PublicUsing Background-Cancer-Risk Based Approach <u>Hattori, T</u>	P12.55
Lessons to be Learned from Fukushima <u>Higson, DJ</u>	P12.56
Relative Changes in Airborne Radionuclide Concentrations Observed in Chiba after The Fukushima Accident <u>Janik, M;</u> Ishikawa, T; Sorimachi, A; Sahoo, S.K; Iwaoka, K; Yonehara, H	P12.57
Environmental Dose Rate Monitoring System For The Field Of Dispersed Cesium-137 <u>Koshida, KK</u> ; Matsubara, KM	P12.58
The Reductive Effect of a Mask for Pollinosis against Internal Exposure of Radioactive Materials Scattered by the Fukushima Daiichi Nuclear Disaster Higaki, S; Hirota, M; Nogawa, N	P12.59
Development of a Counting Geometry for the FastScan Whole Body Counter that is Independent of Subject size for Small Children to Large Adults Bronson, FL	P12.60
Aerial radiological monitoring of East Japan after the Fukushima Daiichi NPP accident <u>Sanada, Y;</u> Kondo, A; Sugita, T; Torii, T	P12.61
Evaluation of Internal Doses for Chronic Intakes after the Fukushima Daiichi Nuclear Power Plant Accident <u>Hato, S</u> ; Kimura, M; Kinase, S	P12.62
Development of The NIRS External Dose Calculation System for The Fukushima Residents Affected by The Nuclear Power Plant Accidents <u>Akahane, K;</u> Yonai, S; Fukuda, S; Miyahara, N; Yasuda, H; Iwaoka, K; Matsumoto, M; Fukumura, A; Akashi, M	P12.63
The Experience of Risk Communication Activities Using Q&A Web Site About Radiation in Daily Life After Fukushima Daiichi Nuclear Power Plant Accident Kono, T; Ogino, H; Hayakawa, H; Shimo, M; Taniguchi, K; Ban, N	P12.64
Development of radioactive databases and contamination map system <u>Seki, A;</u> Takemiya, H; Takahashi, F; Tanaka, K; Takahashi, Y; Takemura, K; Tsuzawa, M; Saito, K	P12.65
Time Variation of Dose Rate and Gamma Spectrum of the Radionuclides Deposited on the Ground Due to the Fukushima Nuclear Crisis	P12.66
Sorimachi, A; Hosoda, M; Tazoe, H; Tokonami, S; Yamada, M; Monzen, S; Osanai, M; Kashiwakura, I	













Refresher Courses and Workshops

The Refresher Course programme provides delegates with the opportunity to update their knowledge in specific areas of radiation protection science and practice. There are two types of course:

- Courses aimed at providing a broad overview of the current state of a given topic, thereby giving delegates not working directly in that field a sound understanding of the current status.
- Courses aimed at giving experienced practitioners a more detailed understanding of up-to-date developments in a field.

Courses will be held each morning before the start of the Congress. The courses have been accredited by the American Academy of Health Physics for Continuing Education Credits.

Моп	day 14 May, 08:00 — 09.00	
RC1:	Biological effects of radiation. Professor Mary Helen Barcellos-Hoff	Lomond Auditorium
RC2:	An Effective Communication Tool for the Public: The International Nuclear and Radiological Event Scale - INES. Dr Cynthia Jones	Alsh
RC3:	Radiation detriment: evolution of its estimation and its role in the RP system. Dr Thierry Schneider	Boisdale
RC4:	Optical radiation safety. Dr John O'Hagan	Dochart
RC5:	Design of medical facilities: radiotherapy shielding design. Dr John Harrison	Carron
Tues		
RC6:	Conducting effective stakeholder involvement. Dr Helen Grogan	Carron
RC7:	Fundamental principles and recent developments in internal dosimetry. Dr George Etherington	Alsh
RC8:	Training workers in RP for a safer work environment. Mrs Vivra Nilsson	Boisdale

Tuesday 15 May, 08.00 - 09.00

EMF Measurements for health and risk

RC9: assessment. Dr Carolina Calderon and Mr Dochart

Darren Addison

Radiation protection issues for novel

RC10: radionuclide therapies.

Wendy Waddington

Lomond Auditorium

Alsh

Lomond

Wednesday 16 May, 08.00 - 09.00

Supporting stakeholder needs for

RC11: information and facts. Carron Dr Brooke Rogers

Radiation protection in NORM industries. RC12:

Ms Karin Wichterey

Safety and security in the transport

RC13: of radioactive materials. Stephen **Boisdale**

Whittingham

Considerations in estimating public doses

RC14: from nuclear facilities. Dochart

Ms Kelly Jones

Radiation protection and pregnancy in

RC15: the medical environment.

Auditorium Dr Ernest Osei

Thursday 17 May, 08.00 - 09.00

Using new technologies in support of

RC16: stakeholder involvement. Carron Sven Nagel

Optimisation of RP for the

RC17: decommissioning of facilities. Alsh

Mr Pascal Deboodt

Introduction to Post Closure Safety

Assessment of near-surface disposal RC18: Boisdale

facilities.

Dr Japie van Blerk

Emergency management according to

RC19: new IAEA BSS. Dochart

Dr Elena Buglova

Radiation protection in interventional Lomond

RC20: X-ray procedures. **Auditorium**

Professor Eliseo Vano













Friday 18 May, 08.00 - 09.00

Introduction to Post Closure Safety

Assessment of deep geological disposal Firths Bar RC21: facilities.

Dr Matthew Kozak

RC22: External dosimetry.
Mr Rodolfo Cruz Suarez Gala

Optimisation of radiation protection for Clvde RC23: radon exposure in homes.

Auditorium Dr Christophe Murith

RC24: Radiation Protection of the environment. Leven

Radiation protection and dosimetry in

RC25: paediatric CT. Forth

Keith Strauss

Medical Sector Practical Workshops

Wednesday 16 May afternoon

These workshops will be led by experts in the relevant fields, and will involve hands on experience of solving routine radiation protection problems.

Workshop 1: Room design in Diagnostic Radiology. Professor Jim Malone.

Workshop 2: Patient dose calculation in Computed Tomography. Sue Edyvean.

Technical Visits

We have been pleased to offer a number of Technical Visits for your interest. The local visits will take place on the afternoon of Wednesday 16th May. Most of the visits are within 90 minutes of the congress centre, but two (Sellafield and the UK Low Level Waste Repository) are at a considerable distance, and have been provided as a one day visit prior to the congress.

Hunterston A Power Station (Decommissioning)

Hunterston A, a twin Magnox reactor site situated on the beautiful North Ayrshire coast and owned by NDA, is half way through its decommissioning programme. This was Scotland's first civil nuclear generating station; it operated between 1964 and 1990 and was fully defuelled by 1995. The primary goal at Hunterston A is to complete the complex decommissioning

programme in line with Government policy and NDA strategy in a way that protects people and the environment. The site is managed by Magnox Ltd, a Company owned by Energy Solutions.

On visiting Hunterston A, you can expect to learn about a range of decommissioning projects including retrieval and processing of wastes. A tour of the intermediate level waste store will highlight a robustly constructed facility and the graphite pathfinder project (GPP) team are available to discuss this emerging and exciting feasibility study. This location is approximately 90 minutes from the Congress Centre.

Hunterston B (AGR) Power Station

The visit to Hunterston B Power Station operated by British Energy (an EDF Company) will provide the delegate with an overview of the main radiological protection issues associated with the operation of Advanced Gas cooled Reactors (AGRs). The visit will include a formal presentation and a chance for open discussion with Station Radiological Protection practitioners, and a visit to the plant to witness at first hand, radiological controls and practices in operation.

Centre for Radiation, Chemical and Environmental Hazards (CRCE), Health Protection Agency (Glasgow)

The Health Protection Agency (HPA) is dedicated to protecting people's health in the United Kingdom. Combining public health, scientific expertise and research within one organisation, the Agency protects against threats to health from infections, environmental hazards and emergencies which can include chemical, biological, radiological and nuclear threats.

Visitors will be able to discuss the radiation protection services provided by the six professional Radiation Protection Advisers (RPAs) who carry out advisory work, occupational level safety training, statutory testing of radiation sources and monitoring instruments, and surveys of work with ionising and nonionising radiation. Their experience covers use of radiation in light and heavy engineering, security, the petrochemical industry (onshore and offshore), universities, and other work places such as vets and dentists. Solar ultraviolet monitoring stations are also maintained across Scotland. Tours will be provided of the Department's state of the art facilities for testing radiation measuring instruments. Health physics equipment that supports routine and emergency response work will be demonstrated.













Tours will be provided of the radiometric and analytical chemistry laboratories and the Department's Emergency Operations Centre. Senior staff will discuss their experience from genuine emergency and exercise scenarios.

HM Naval Base, Clyde

HM Naval Base Clyde, at Faslane, is some 25 miles north west of Glasgow and is home to the United Kingdom's strategic nuclear deterrent and the headquarters of the Royal Navy in Scotland. The Naval Base primarily comprises of the Naval Base at Faslane itself and the Royal Naval Armaments Depot (RNAD) at nearby Coulport. HM Naval Base Clyde's key role is to support the Royal Navy in maintaining Continuous At Sea Deterrence. This is achieved by ensuring that at least one Vanguard Class SSBN submarine is on patrol at sea every day of every year. The visit to the Base will include a guided tour of the nuclear accident response facilities, solid waste handling facilities, liquid processing facilities, the submarine berths themselves and the Shiplift.

GSE Systems Power Station Simulation Training Centre at University of Strathclyde (Glasgow)

The home to the only academic, fully flexible GSE Power Station simulator suite designed for training in Europe. This \$4 million simulation training and education centre offers a unique facility that provides the basis for research and education in the areas of real-time simulation, power station control and advanced diagnostics. The simulator replicates actual control rooms with instrumentation and controls driven by computer models that replicate a plant's actual response to normal operating conditions.

The ALPHA-X Laboratory, University of Strathclyde (Glasgow)

This laboratory is furnished with a pair of femtosecond lasers and "target areas" situated in a suite of well equipped, shielded laboratories. This equipment is used to investigate the interaction of intense electromagnetic fields with matter. The main activity of the ALPHA-X project is to develop laser-plasma accelerators and utilise these as drivers of compact radiation sources. One of the lasers is the highest power short-pulse laser system in any UK university laboratory (pulse energy of 1 J, wavelength 800 nm and pulse duration 35 fs) that can deliver 30TW of peak power to the experiments, which makes possible studies at field intensities in excess of 1019 Wcm-2. The visit to the laboratory will entail a tour of the laser facilities

and the ALPHA-X beam line area. Laser-plasma accelerators are extremely compact and the entire beam line area covers only an area of 10 m x 3.5 m. With a bit of luck, the accelerator will be operational during the visit so visitors may witness first hand the generation of 100 - 200 MeV electron beams and associated bright X-ray pulses!

Sellafield Nuclear Site (One Day Visit)

Sellafield has been home to nuclear operations since the early 1950's, primarily focused on nuclear generation, storage and chemical separation of nuclear fuel. Today the highest priority for the site is accelerating high-hazard and risk reduction of the legacy facilities on the largest and most complex nuclear cleanup site in the world, with 170 major nuclear facilities and 2200 other buildings housing activities that cover the entire nuclear fuel cycle. It is home to some of the most innovative and complex nuclear decommissioning projects in the world. The tour will give an opportunity to see the contrast between the oldest and newest of the operating plants on the site and will also include a coach tour to view the major construction projects.

UK Low Level Waste Repository, Drigg (One Day Visit)

This visit will allow the participants to view the development of LLW management in the UK since the start of the nuclear programme in the UK. Key aspects are the learning gained through operation and the development of regulation within the nuclear industry and the impact of regulations from other industries both within the UK and across Europe. Through the development of the facility over 50+ years it has been optimised through both necessity and regulation. More recent changes have been developed in collaboration with both local and national stakeholders which has had a dramatic impact on the facility now proposed and the way in which it is managed. Despite the limited and minimal radiological risk from a technical perspective it is nevertheless NUCLEAR waste and is therefore very much in the public eye. As well as touring the operational site, the visit will focus on the development of both the UK national policy for LLW management and the Post Closure Safety Case for the repository.













Publication of Proceedings

All papers, poster PDFs and presentations will be published on the IRPA website following the Congress. Selected presentations will be available as podcasts or audio/slide productions.

A Congress Output which clarifies state-of-the-art knowledge, current direction and emerging challenges in all the areas of radiation protection addressed at the Congress will be distilled into a discussion document, which after the Congress will be posted on the IRPA13 website for consultation. The finalised Output will then be published in the SRP's Journal of Radiological Protection.

IRPA Business Programme

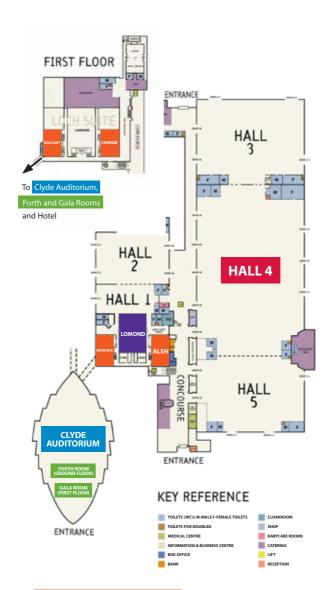
IRPA will conduct many aspects of its formal business during the Congress. The Associate Societies Forum will be held on Sunday 13 May, the General Assembly on Wednesday 16 May, and other committees will meet as necessary. For further information on the IRPA business programme, including all papers, please go to the IRPA website [www.irpa.net].

The Congress Venue

The 13th International Congress of the International Radiation Protection Association – IRPA13 is taking place in the Scottish Exhibition and Conference Centre (SECC), Glasgow, UK.

The SECC is located right in the heart of the city on the banks of the River Clyde and provides purpose-built conference and exhibition facilities of the highest standard, while its level of service represents the best traditional Scottish warmth and hospitality. For further information on the Conference Centre please visit www.secc.co.uk.

Hall 4	Registration, Exhibition, Posters and Catering
Clyde Auditorium	Opening Ceremony, Plenary Sessions and Parallel Sessions
Forth Room and Gala Room	Parallel Sessions
Lomond Auditorium	Parallel Sessions and Refresher Courses
Alsh, Boisdale, Dochart and Carron Rooms*	Parallel Sessions and Refresher Courses



*The Dochart and Carron rooms are directly above the Boisdale and Alsh rooms













General information

Registration Opening Times

The registration desks are located in Hall 4 at the Scottish Exhibition and Conference Centre:

Sunday 13 May 2012	16.00–20.00 hours Hall 4
Monday 14 May 2012	07.00–18.30 hours Hall 4
Tuesday 15 May 2012	07.00–18.30 hours Hall 4
Wednesday 16 May 2012	07.00–18.30 hours Hall 4
Thursday 17 May 2012	07.00–17.00 hours Hall 4
Friday 18 May 2012	07:30–14.00 hours Clyde Auditorium foyer

Opening Ceremony

The Opening Ceremony and Sievert Lecture will be held in the Clyde Auditorium on Monday 14 May from 09.00 hrs to 11.00 hours.

Transportation

Glasgow Prestwick Airport is a 45 minute drive by direct motorway link from the SECC. Glasgow's International Airport is a 15 minute drive from the SECC, and provides direct access to and from major European and North American cities.

Public transport is available to and from the SECC:

Scotrail: From Glasgow Central Station (low level), there is a regular train service to the "Exhibition Centre" station, which is linked to the SECC by a covered walkway The train departs approximately every 9 minutes but you should check out this link for further information - http://www.scotrail.co.uk/timetables-routes/171/205. You should refer to the Glasgow - Milngavie and the Helensburgh Central - Glasgow part of the timetable for the relevant train times. The train service to Edinburgh departs from Glasgow Queen Street station.

Bus: First Bus 62 service and Arriva 26 service operate each day, approximately every 10 and 20 minutes respectively, at

the main entrance to the SECC site. These services run from Argyle Street (62) and Finnieston Street, at the Clyde Arc Bridge (26). Both services travel to Glasgow City Centre and return, as follows:

First bus 62 via St Vincent Street, West George Street and Union Street

Arriva 26 via Broomielaw, Oswald Street and Glasgow Central train station.

Taxis: Taxis are available for hire outside the SECC and the adiacent Crowne Plaza Glasgow Hotel.

Delegate Travel Card

All full delegates and accompanying persons will receive an SPT Travel Card when registering for the IRPA13 Congress in Hall 4 at the SECC. Note that this is guite wide-ranging and covers travel on most buses and local trains, including out to Loch Lomond (Balloch) and the Clyde coast. Accompanying Persons in particular are encouraged to make the best possible use of this option. This travel card is valid from Sunday 13 through to Friday 18 May 2012, instructions of use will be provided with the card. Please note this is included within the full delegate registration fee, not the day delegate fee.

Abstract Book

The abstract book is available on the congress USB and on the website.

Badges

The name badge issued to delegates at registration serves as an admission pass to all scientific sessions, the exhibition and social events. Delegates are asked to ensure that they wear their name badge at all times. If your badge is lost, a new badge will be issued. The administration cost for a new badge is £2.50

Rank

An ATM machine is located on the Concourse at the SECC. Branches of all the major UK banks may be found in the centre of Glasgow. Generally, weekday opening hours for banks are 09:15 - 16:45 hrs, although this does vary. A limited number are open on Saturday mornings.

For exchanging foreign currency and traveller cheques the banks usually provide the most competitive rate. However, it is also possible to change money in airports, larger rail













stations, travel agents, some larger hotels (if you are a resident) and in most Post Offices; there is usually a handling fee and commission. The Glasgow Tourist Board located in George Square is open from 09:30 – 18:00 hrs every day, including Saturday and Sunday for the purposes of exchanging foreign currency and travellers cheques.

Business and Information Centre

There is a Business Centre on the Concourse, which provides fax and photocopying services. These services are used at the delegates' own expense. Photocopying is available for £0.10 per page for black and white, and £0.20 per page for colour. Faxing is £2.00 for the first sheet and £0.50 per page thereafter. The Business & Information Centre will be open during the Registration opening hours. Local and tourist information is also available here.

Car Parking

Delegate car parking is available at the SECC at a cost of £6.00 per car, per day.

Cloakroom and Left Luggage Facilities

There will be cloakroom facilities available at the SECC during the registration opening hours. There is a charge of £1.00 per item left. Left luggage facilities will be available on Friday 18 May 2012 on the concourse.

Credit Cards

Commonly accepted credit cards in hotels, restaurants and stores are American Express, Visa, Mastercard and Diners.

Disclaimer

All best endeavours will be made to present the programme as printed. However, IRPA13 and its agents reserve the right to alter or cancel, without prior notice, any arrangements, timetables, plans or other items relating directly or indirectly to the congress, for any cause beyond its reasonable control. IRPA13 and its agents are not liable for any loss or inconvenience caused as a result of such cancellation. Delegates are advised to take out their own travel insurance and to extend their policy to cover personal possessions as the Congress does not cover individuals against cancellation of bookings or theft or damage to belongings. Tours run by third parties may be subject to cancellation should minimum numbers not be achieved.

Electricity

The voltage in the United Kingdom is 220-240V.

Exhibition

An exhibition of related products, services and technologies is being held concurrently with the Congress. The exhibition will be located within Hall 4 at the SECC.

Monday 14 May 2012	09:00-17:00	Exhibition Open
Tuesday 15 May 2012	09:00-17:00	Exhibition Open
Wednesday 16 May 2012	09:00-17:00	Exhibition Open
Thursday 17 May 2012	09:00-17:00	Exhibition Open

Full details of the Exhibition are included on page 154.

First Aid

A fully staffed first aid post is open at all times during the Congress opening hours. The first aid room is situated on the Concourse at the SECC.

Internet Facilities



There are free wireless facilities available throughout the SECC and there is also an Internet Café in the exhibition in Hall 4 which is sponsored by EDF Energy.

Language

The official language of the Congress is English. Simultaneous translation is not available.

Lost Property

Enquiries regarding items lost or found can be made at the Registration Desks located in Hall 4.

Lunches and Refreshments



Refreshment breaks are sponsored by Canberra. Coffee and Tea will be served CANBERRA during the morning and afternoon breaks

in Hall 4. Tea and coffee are included in your registration fee. Cash catering for lunch will be available in Hall 4 and there are also various other cash catering facilities available at the SECC including a coffee and snack bar and a restaurant.













There are also several restaurants in close proximity to the SECC – Yen (India Quay). Crowne Plaza Hotel and the Hilton Garden City Inn Hotel.

Please refer to the programme pages for official break times.

Mail

There is a mail box located outside the east entrance of the SECC, which is emptied daily. Stamps are sold at the newsagent situated on the Concourse. The nearest Post Office is located at:

1170 Argyll Street, Glasgow G3. Tel: 0141 248 7611

Messages and Correspondence

Messages for delegates should be handed in at the Registration Desks in Hall 4. Notification of messages will be displayed on the message board situated next to the registration area in the Hall 4. Please check the board daily and pick up your messages – they may be urgent.

Mail can be forwarded to delegates at the SECC. Mail should be addressed:

c/o IRPA13 2012, Hall 4, Scottish Exhibition and Conference Centre, Glasgow, G3 8YW, Scotland, UK.

Posters

Poster sessions will take place at the exhibition area located in Hall 4. The Poster presenters will be in attendance at their posters during the following poster session times:

Monday 14 May	16:00-17:00 hours	Poster Session A
Tuesday 15 May	16:00-17:00 hours	Poster Session B
Wednesday 16 May	10:30-11:30 hours	Poster Session C
Thursday 17 May	13:15-14:15 hours	Poster Session

For further information on Posters, please refer to page 60.

Public Telephones

Public telephones (coin, credit card and cardphone operated) are located at various points on the Concourse. Phone cards can be purchased at the newsagent.

Security

Any security problems or concerns should be reported to a uniformed member of staff.

Shoos

Most stores in central Glasgow are open from 09:00 - 17:30 hrs Monday – Wednesday and Friday – Saturday. Most large department stores and boutiques are open until 19:00 hrs on Thursday evenings and some stores also open from 11:00 hrs – 16:00 hrs on Sundays.

There is also a newsagent on the concourse of the SECC.

Smoking Policy

On Sunday March 26, 2006 Scotland introduced a new law which bans smoking in public places. The law includes all enclosed or partly enclosed public areas. Therefore smoking is not allowed anywhere within the SECC or any of the social venues.

Social Media

To link to the IRPA13 Facebook and Twitter accounts please visit the following:

- Facebook: http://www.facebook.com/IRPA-13
- Twitter: http://twitter.com/#!/IRPA13

Please note the Twitter account will be used for questions and answers during certain sessions within the congress programme. These sessions will be communicated separately with the relevant hash tag that should be used when directing questions to the Session Chair during the session.

There is an IRPA13 Congress electronic application available for download, instructions will be sent out to each delegate separately. Note that this runs on tablets as well as phones. This will be added to continuously on the run up to the congress, please note the application should upload any updates automatically to your device.

In addition there is a Glasgow App which gives customers and visitors to the city finger-tip access to real-time special offers and discounts for businesses in the city, as well as listing attractions, bars, cafés, going out, looking good, restaurants and of course shopping. You can download the current version













of the app at www.glasgowstylemile.com or directly from iTunes at http://itunes.apple.com/gb/app/glasgow-style-mile/id378731232?mt=8

Taxis

Taxis are available for hire outside the SECC or the adjacent Crowne Plaza Hotel. The cost of a taxi to the city centre is approximately £4.00.

Tipping

Tipping is not as widespread or regulated in Scotland as it is in other parts of the world. Tipping is at your discretion, a reward for service. It is customary to tip hotel porters (50 pence – 75 pence per piece of luggage) and taxis (10% of the fare). A gratuity of about 10% is usual in restaurants if good service is received and it is not already included on the bill.

Useful Websites

Glasgow City Marketing Bureau	www.seeglasgow.com
Scottish Tourist Board	www.visitscotland.com
Scottish Exhibition and Conference Centre	www.secc.co.uk
British Airport Authority, Glasgow Airport	www.glasgowairport.com
Glasgow Buses	www.firstgroup.com
National Express	www.nationalexpress.com
ScotRail	www.firstgroup.com
Rail Europe	www.raileurope.com

Value Added Tax (VAT)

Value Added Tax and similar taxes are charged on most goods and services in the United Kingdom. At the time of going to press, VAT in the United Kingdom is 20%.

VAT must be paid on goods or services at the point of sale. Business travellers within Europe, subject to certain conditions, may reclaim VAT for Congress registration fees, accompanying persons' registration fees etc. This applies to both non-European business travellers visiting Europe and to European business travellers to other EU countries. For further information please contact Customs and Excise on departure at the Airport.

Шeather

Weather during May in Glasgow can be pleasant with an average temperature of 14°C although an umbrella is a sensible precaution as the weather in Scotland can be unpredictable.

Social Programme

Welcome Reception

Sunday 13 May 2012, 19:00-20:30 hours

The Welcome Reception will be held at the Glasgow Science Centre which is situated across the river footbridge from the SECC. The evening will allow delegates to relax and socialise, renewing old friendships and making new ones prior to the Congress week commencing. This event is inclusive within the registration fee for all delegates and accompanying persons.

Opening Ceremony and Sievert Lecture

Monday 14 May 2012, 09:00-11:00 hours

The Opening Ceremony will take place in the Clyde Auditorium within the SECC, it will be followed directly by The Sievert Lecture.

Accompanying Persons Reception

Monday 14 May 2012, 11:00-11:30 hours

The Accompanying Persons Reception will take place in the Alsh Room.

Young Professionals Reception

Monday 14 May 2012, 18:30-20:30 hours

The Young Professionals Reception will take place in Firths Bar within the SECC. This event is invite only. Firths Bar is located at the rear of the Clyde building adjacent to the link corridor.













SRP Annual Dinner

Monday 14 May 2012

The Annual Dinner of the UK host Society for IRPA13, the Society for Radiological Protection, will take place at Arta, the Mediterranean themed bar and club in the heart of the City Centre. The three course meal will be followed by dancing and casino entertainment. Coach transportation from the main hotels will be provided. Please note you need a ticket to attend this event.

Scottish Evening

Tuesday 15 May 2012

The Scottish Evening is an informal evening which will take place simultaneously at two locations within Glasgow, Oran Mor and the Grand Central Hotel, where delegates will have the opportunity to socialise and learn some traditional Scottish dances. Drinks and a light buffet will be served. Please note you need a ticket to attend this event.

Gala Dinner

Thursday 17 May 2012

The IRPA13 Gala dinner will be hosted in true Celtic style at The Thistle Hotel, in the heart of the City. On arrival delegates will be received with a welcome drink prior to being seated and served with a Scottish themed menu. A paying bar will be available after the meal, providing delegates with ample opportunity to socialise and make new acquaintances. Entertainment with a Scottish flavour will be provided during the evening. Please note you need a ticket to attend this event.

Farewell Wee Dram

Friday 18 May 2012

Delegates and Accompanying Persons are invited to participate in a Wee Dram of Whisky to celebrate the end of the Congress. This will take place immediately after the Closing Ceremony in the SECC.

Sightseeing Tours

Charles Rennie Mackintosh Trail (Accompanying Persons Tour). Tuesday 15 May. 13.30 - 17.00 hours

An introduction to the life and works of Glasgow's most famous architect Charles Rennie Mackintosh. We will focus on the exteriors of some of his best known works including Oueen's Cross Church (the only church he designed and now the home of the CRM Society), the Glasgow School of Art and Scotland Street School. We will also have an interior visit to The Glasgow Style gallery at Kelvingrove Art Gallery & Museum with it's displays of furniture, decorative objects and paintings which set Mackintosh's work in the context of Glasgow at the turn of the century.

Glasgow City Tour. Monday 14 May, 14.00 — 17.00 hours

This introduction to Glasgow will cover a panoramic tour of the City Centre, including the River Clyde, the historic Cathedral and Merchant City, the Georgian grandeur of Blythswood Square, Kelvingrove Art Gallery and the University Campus. We drive through the Clyde Tunnel to visit the Burrell Art Collection in Pollok Country Park with the chance to see the largest herd of Highland Cattle in Britain.

Glengoyne Distillery & Loch Lomond. Tuesday 15 May, 09.30 – 12.30 hours

Travelling from Glasgow we drive to the foot of the Campsie Fells and visit Glengoyne Distillery, where we will see how Scotland's national drink is produced. For those who wish there is even a taste of the end product! At Balloch we'll make a stop to enjoy the panoramic views from Loch Lomond Shores in the Loch Lomond National Park before returning to Glasgow.

Loch Lomond (Including sail on the Loch). Wednesday 16 May, 14.00 — 17.00 hours

From Glasgow we travel along the banks of the river Clyde to Helensburgh and then by way of scenic Glen Fruin to Loch Lomond and on to Tarbet. Here we will board a cruiser for a sail on the Loch, in the shadow of Ben Lomond. Our final drive takes us along the banks of the Loch, with magnificent views to the islands, on our homeward journey to Glasgow.













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Edinburgh. Wednesday 16 May, 09,30 - 17,30 hours

We travel to Edinburgh past historic Linlithgow, where we can see over to Linlithgow Palace, the birthplace of Mary Queen of Scots. On the outskirts of Edinburgh we will enjoy morning coffee & shortbread in the shadow of the magnificent Forth Bridges before a panoramic look at the sweeping Georgian terraces and crescents of the New Town, followed by an interior visit to Edinburgh Castle. After lunch the remainder of the afternoon is free for shopping and/or sightseeing.

Inverness, Loch Ness & Highlands. Saturday 12 — Sunday 13 May

This two day tour will let you explore one of Scotland's most popular cities, at your own pace; go monster spotting by Loch Ness and see some spectacular scenery. This really is essential Scotland!

Day One. We make our way to lonely Rannoch Moor and into Glen Coe, Scotland's most famous glen and the scene of the terrible massacre in 1692. We will make a stop in the midst of this awe-inspiring scenery where you can enjoy the magic of this special place. From Fort William the striking scenery of the Great Glen unfolds ahead of us – first Loch Lochy, then Loch Oich and finally Loch Ness. We will tour through in the attractive village of Fort Augustus then drive the entire length of Loch Ness. We will make a stop at Urquhart Castle, where you visit the Castle and take a cruise on the loch. Shortly we will arrive in Inverness, our home for tonight. Dinner and overnight in Inverness.

Day Two. This morning we have an enjoyable excursion through the Black Isle to the picturesque village of Cromarty. Later we will spend some time dolphin spotting by the Moray Firth before crossing the Kessock Bridge and making our way back to Inverness. Later there is free time in Inverness for shopping or sightseeing. As we depart Inverness we make our way through the gentle Spey Valley then on through stunning scenery as we drive over the Drumochter Pass. Keep a close watch for the deer that often come down to the roadside to graze. There are wonderful views of majestic Blair Castle before we make a stop in the heart of the Perthshire countryside. From here we make our way homewards to our journey's end.





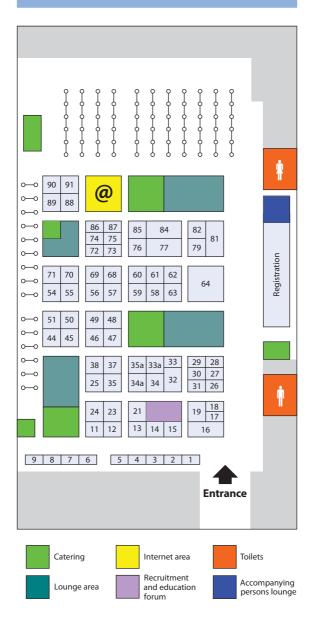








Technical Exhibition



Exhibitor	Stand No.
Adelaide Convention Centre	75
AMT-SYBEX	56
Atkins	32
Atomtex SPE	79
Auswertungsstelle im Helmholtz	71
Zentrum München	
AUTOMESS GMBH	57
Babcock International Group	33a
Baltic Scientific Instruments	54
Berthold Technologies (UK) Ltd	6
Canberra Industries	81
Congrex UK Ltd	27
College of Radiographers	73
Croft Associates Ltd	7
Doseco Oy	5
DxTerity Diagnostics	62
Eckert & Ziegler Nuclitec GmbH	48
EnergySolutions EU Ltd	35a
ENVINET GmbH	29
F&J SPECIALTY PRODUCTS, INC	85
FOMA BOHEMIA Ltd	69
Gamma Technical Co.	21
GEN II Engineering & Technology	Recruitment
GEN II Engineering & Technology Training Limited	and Education
3	Forum: Stand 20
Georadis s.r.o.	25
German-Swiss Association	31
for Radiation Protection	
Congrex UK Ltd	27
GRAETZ Strahlungsmeßtechnik GmbH	13
Health Physics Society	9
Health Protection Agency	44
Hopewell Designs Incorporated	55
Ingles Buchan (Textiles) Ltd	30
Institute of Isotopes Co., Ltd	21
Institute of Physics and Engineering in Medicine IPEM	87
IOP Publishing	Recruitment and Education Forum: Stand 20
RIO DE JANEIRO 2020 - SBPR – Sociedade Brasileira de Proteção Radiologica	74













Exhibitor	Stand No.
IRPA Regional Congresses	19
IRSN	46
John Caunt Scientific	86
Kindenoo	15
Korean Association for Radiation Protection	33
Kromek Ltd	8
Lab Impex Systems	59
LabLogic Systems Limited and Southern Scientific Limited	89
Landa Sistemas, SL.	12
LANDAUER EUROPE	24
Ludlum Measurements, Inc	38
Maney Publishing	11
Mirion Technologies	64
France Mirion Technologies (MGPI) SA	64
Nuclear Energy Institute	63
Nucleonica GmbH	Recruitment and Education Forum: Stand 20
Nuvia	68
Office For Nuclear Regulation (ONR)	Recruitment and Education Forum: Stand 20
ORTEC (Advanced Measurement Technology)	45
Oxford University Press	Table Top 1
Panasonic Industrial Devices Sales Europe GmbH	2
POLIMASTER Ltd	60
PREMIUM ANALYSE	14
RADeCO Inc	37
Radiation Detection Company	84
Radosys Ltd	88
Rolls-Royce	16
RPS Planning + Development	82
S&W Technologies Inc.	72
SAPHYMO	47
SARAD GmbH	3
Scientific Lesser	91
Scientific Technical Centre RADEK Ltd. (STC RADEK Ltd.)	35

Exhibitor	Stand No.
Source Exchange Ltd	Recruitment and Education Forum: Stand 20
South African Radiation Protection Association/ South African radiation Protection Society (SARPA/SARPS)	17
Southern Scientific Limited	89
SRCL	4
The Society for Radiological Protection	26
The UK Environment Agencies	34a
Thermo Fisher Scientific Messtechnik GmbH	77
Tracerco	1
Transpire, Inc.	34
Unfors RaySafe GmbH	49
UniTech Services Group, Inc	28
University of Cumbria	Recruitment and Education Forum: Stand 20
URS	23
VF, a.s.	33a
Wardray Premise Ltd	76
WINS (World Institute for Nuclear Security)	50
Wytek	18
YAMAMOTO CORPORATION	70
Zinsser Analytic UK Ltd	51













Editorials

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Health Protection Agency

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The Health Protection Agency, which is soon to become part of Public Health England, has always had the protection of public health at its heart. When radiation issues make headlines such as during Fukushima crisis. the HPA has played its part in going to the public with timely, measured and practical advice. The Agency believes this approach is key to ensuring the very best public health. We wish IRPA a successful 13th Congress.

Nuclear Energy Institute

1776 | Street, NW · Suite 400 · Washington, DC 20006 · USA Web: www.nei.org

Nuclear Energy Institute (NEI) is the industry's policy organization providing global leadership and fostering the beneficial used of nuclear technology in its many forms. NEI represents all segments of the commercial nuclear energy industry, including: energy companies, reactor designers, architect-engineers, construction firms, equipment and service suppliers, labor unions, law firms, fuel enrichment, fabrication and mining companies, universities and research laboratories, and radiopharmaceutical and radioisotope manufacturers. For more information, please visit our website at www.nei.org.

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Exhibitor contact details

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