



***FOURTH EUROPEAN
IRPA CONGRESS***

***Radiation Protection
Culture -
A global challenge***

***JUNE 23-27, 2014
Geneva, Switzerland***

POSTER SESSIONS



Tuesday, June 24, 2014

10:30-11:30 PS2-1: Education & Society

PS2-1/01 The Romanian Society for Radiological Protection and Its Role in Education and Training on Radiation Protection *Constantin Milu*

PS2-1/02 Radiation Measurement Practice for Comprehending Randomness and Statistical Fluctuation in Radiation Counts using Natural Radiation Sources *Takao Kawano*

PS2-1/03 Education and Training in Radiation Protection at the University of Groningen from 1976 to 2013 and beyond *Hielke Freerk Boersma*

10:30-11:30 PS6-1: Radiation Protection in Medicine

PS6-1/01 Estimation of the effective doses in the group of most frequent radiographic and CT examinations in Slovakia *Lukas Zachar*

PS6-1/02 Automatic Verification of UM generated by TPS CAT3D in radiotherapy *Erick Hernandez*

PS6-1/03 Low dose applications in Healthcare and development of patient doses *Friedhelm Schreiber*

PS6-1/04 Comparative Study of Dental X-Ray Sources with Respect to Received Local Dose *Atallah Gabriel Copty*

PS6-1/05 Release criteria of patients treated with ¹³¹I : from dose rate measurement to residual activity *Fabien Devynck*

PS6-1/06 Radiation Oncology Audits in Switzerland *David Wittwer*

PS6-1/07 Radiation measurement and protection in radon balneotherapy *Henning von Philipsborn*

PS6-1/08 Accidental embryo irradiation during DXA examinations: An estimation of absorbed dose *John Damilakis*

PS6-1/09 Survey of Radioiodine Therapies in Switzerland *Thomas Flury*

PS6-1/10 Veterinary imaging procedures: assessment of the radiation dose received by personnel *Pier Luca Rossi*

PS6-1/11 Comparative study of dose distribution in 3D conformal and simulated 2D plan of lung carcinoma *Matrika Prasad Adhikari*

PS6-1/12 Security evaluation of i/o shields radiological room in clinics using bioindicator *Teresa Leal*

PS6-1/13 Importance of new detector technologies and software developments on radiation absorbed dose reduction to the patients *Bengul Gunalp*

PS6-1/14 Whole body counting of radium-223 for monitoring of staff: preparing for radionuclide therapy *Soren Holm*

PS6-1/15 The Challenges to developing a Radiation Protection Culture in Nigeria: An initial survey of Diagnostic Radiology practice *Nneoyi Egbe*

PS6-1/16 Dose Measurements on Dental Tomographs and CBCTs. Towards a national DAP reference level
Hanne N Waltenburg

PS6-1/17 Exposure of the Swiss Population from Radiological Examinations *David Wittwer*

12:30-14:00 PS5-1: Measurement & Dosimetry

PS5 -1/01 Development by Landauer of a new passive dosimeter based on the Optically Stimulated Luminescence technology for IEC 62387 compliance *Brahim Moreno*

PS5 -1/02 The more Measurements, the worse a Decision Threshold? - Inflation of α -Errors under a true Null-Hypothesis *Wolfgang Kraut*

PS5 -1/03 Methodological approaches to external retrospective dosimetry using EPR with tooth enamel: experience from the Tеча River study *Helena Shishkina*

PS5 -1/04 Optical properties and neutron responses of Li+ doped CsI scintillator crystal
Maria da Conceição Pereira

PS5 -1/05 Usage of Gamma and Neutron Pagers for Search and Dose Rate Measurements
Michael Iwatschenko

PS5 -1/06 EFFTRAN - A code for efficiency transfer and calculation of coincidence summing corrections in gamma-ray spectrometry *Tim Vidmar*

PS5 -1/07 Characterization of Energy-Resolving Hybrid Pixel Detectors with reference beam qualities for medical applications *Jerome Damet*

PS5 -1/08 Simulation of the radiation fields of the Beta Secondary Standard BSS 2: a first application
Rolf Behrens

PS5 -1/09 U-238 content in urine of uranium miners in dependence on inhalation intake pattern and physico-chemical parameters of inhaled aerosol *Lukáš Kotík*

PS5 -1/10 Measurement of Lu-177 activity and assurance of the international and national metrological traceability for its use in nuclear medicine *Mihail-Razvan Ioan*

PS5 -1/11 Establishing a New Secondary Standards Dosimetry Laboratory – Key Elements For a Successful Program *Robert Rushton*

PS5 -1/12 Performance assessment of the thermoluminescence dosimetry systems used in Horia Hulubei, National Institute for R&D in Physics and Nuclear Engineering *Ana Stochioiu*

PS5 -1/13 Full Spectrum Analysis in Environmental Monitoring of Gamma Radiation *Sascha Reinhardt*

PS5 -1/14 Effect of low ambient temperatures on OSL process of α -Al₂O₃:C : Relevance to online OSL Dosimetry *Anuj Soni*

PS5 -1/15 Improving OSL Fading Characteristics of LiMgPO₄:Tb,B using NL-OSL Technique- Potential Application in Personal Dosimetry *Dr Devesh R Mishra*

PS5 -1/16 Application of planning methods for organization radiation monitoring of environment
Sergey Natkha

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PS5 -1/17 Enhancement radiation monitoring of radioactive waste management *Sergey Natkha*

12:30-14:00 PS6-2: Radiation Protection in Medicine

PS6-2/01 Patient and Staff Dose Optimization in Nuclear Medicine Diagnosis Methods *Sajad Abedi*

PS6-2/02 Blood dosimetry estimation in a malignant struma ovarii patient with high dose radioiodine therapy *Yu Wen Chen*

PS6-2/03 Determination of doses for radiological examinations of paranasal sinuses of children *Durdica Milkovic*

PS6-2/04 Failure Mode and Effects Analysis in Tomotherapy *Marie Claire Cantone*

PS6-2/05 Effect of aortic stent graft on radiation dose in patients undergoing abdominal computed tomography (CT) *Marie Cantone*

PS6-2/06 Medical physicists' implication in radiological diagnostic procedures: results of after one year of experience *Nick Ryckx*

PS6-2/07 For a better filtration of x-ray beams *Gabriel Stanescu*

PS6-2/08 Methodology of estimating the organ doses and radiation risks of potential cancer for typical routine CT examinations *Vladislav Malafeev*

PS6-2/09 Estimating radiation risk of cancer associated with multiple CT scans *Valerii Kashcheev*

12:30-14:00 PS8-1: Radiation protection of the Public

PS8-1/01 Indoor radon levels in new conventional dwellings and in new passive houses *Wolfgang Ringer*

PS8-1/02 Radiation in Everyday Life – an Irish Perspective *Lorraine Currivan*

PS8-1/03 Prediction and mapping of indoor radon concentrations in Switzerland using machine learning algorithms *Georg Kropat*

PS8-1/04 Assessment of radionuclide concentration in granites rock and environmental effects of quarry activities on nearby residents in ogun state, Nigeria *Abiodun Sakiru Okedeyi*

PS8-1/05 Methodology for External Dose Assessment to Finite Radioactive Contaminated Environment based on New ICRP Publications *Song Jae Yoo*

12:30-14:00 PS9-1: Radiation protection of Workers

PS9-1/01 Decommissioning of a pressurised water reactor *Teresa Ortiz*

PS9-1/02 Radon and Gamma Dose Rates Estimation in indoor and outdoor Workplaces and schools in North of Riyadh, Kingdom of Saudi Arabia. *Khulud Almuqrin*

PS9-1/03 Asbestos removers in a nuclear environment: the role of the occupational physician *Marie-Luce Llaona*

PS9-1/04 Radiation Protection Aspects of Deep Geothermal Energy Production *Christian Wernli*

PS9-1/05 Development of the application software and design of the hardware for the radiation safety management *Yunjong Lee*

PS9-1/06 Numerical simulation of particulate contaminant transfers in the reactor building of a nuclear power plant – application as a radiation protection tool *Alexandre Ferrer*

PS9-1/07 Radiation protection aspects in new research facility CETAL *Elena Stancu*

PS9-1/08 Epidemiology of skin tumours and the role of microcirculation in radioprotection prevention *Raffaele Pennarola*

PS9-1/09 Simulation on the recovery of a gamma source stuck in a logging tool *Joana D' Arc Ramos Lopes Gomes*

PS9-1/10 TREC: Traceability of Radioactive Equipment at CERN *Luca Bruno*

15:30-16:30 PS2-2: Education & Society

PS2-2/01 Cernum: an advanced training tool in the service of radiation protection 2013 first applications: simulation of irradiating sources *Alexandre Ferrer*

PS2-2/02 Education in Radiation Protection using a digital environment, does it work? *Dominique Laurier*

PS2-2/03 Radiation protection culture at school: 7th Annual Meeting of high schools in Geneva in 2014 *Thierry Schneider*

PS2-2/04 The Pluralistic Radon Project in Franche-Comté *Sylvie Charron*

PS2-2/05 What is wrong in our communication related to ionizing radiation: Identifying a better way *Tanja Perko*

PS2-2/06 Radiation Safety Assessment of trading companies dealing with x-ray equipment for veterinary use *Richard Holzwarth*

15:30-16:30 PS6-3: Radiation Protection in Medicine

PS6-3/01 Optimization of radiation protection in X-ray diagnostic procedures using a mobile application *Francis Verdun*

PS6-3/02 The effectiveness of lead apron for radiation protection in CT *Nicolas Weber*

PS6-3/03 Radiation exposures for interventional radiologists in Poland *Maciej Budzanowski*

PS6-3/04 The Swiss experience with the SELECTIVE INTERNAL RADIATION THERAPY (SIRT) using Yttrium-90 microspheres *Gloria Perewusnyk*

PS6-3/05 Dose and dose distribution in medical radiological CT procedures in Poland *Dariusz Kluszczynski*

PS6-3/06 Medical Physics Personnel for Medical Imaging - Requirements, Conditions of Involvement and Staffing Levels : French recommendations *Carole Rousse*

PS6-3/07 Measurement of peak skin dose and establishment of European alert thresholds for interventional radiology procedures *Jad Farah*

PS6-3/08 The Value of Remote Monitoring System in Hospitalization in Differential Thyroid Cancer with High-dose Radioiodine Therapy *kuai-lan Chang*

PS6-3/09 Exposure of persons accompanying nuclear medicine patients undergoing bone scintigraphy *Sébastien Baechler*

PS6-3/10 National Diagnostic Reference Levels: the current status in Greece *Maria Kalathaki*

Wednesday, June 25, 2014

10:30-11:30 PS1-1: Biological Effects

PS1-1/01 Radiation Survival Curve for Pediatrics Rhabdomyosarcoma Cells *Elexander Ibrahim*

PS1-1/02 State of Innate Immunity in Persons with Increased Frequency of Somatic Mutations and Chromosome Aberrations in the Period of Late Effects of Radiation Exposure *Andrey Akleyev*

PS1-1/03 Does Environmental Radon Gas Influence the Incidence of Multiple Sclerosis? A Preliminary Retrospective Study in England and Wales *Antony Denman*

PS1-1/04 Excess Risk models for radon associated lung cancer mortality in the Wismut uranium miners cohort (1946-2008). *Linda Walsh*

PS1-1/05 Establishment of a cohort of RTE retirees, occupationally exposed to ELF EMF *Martine Souques*

PS1-1/06 Successful Treatment of Local Radiation Injuries with Autologous Mesenchymal Stem Cells and Adipose-Derived Regenerative Cells *Ilya Eremin*

PS1-1/07 Primary stress responses in Arabidopsis thaliana exposed to gamma radiation *Nathalie Vanhoudt*

10:30-11:30 PS7-1: Radioecology & Environment

PS7-1/01 A study of behavior of radon 222 and carbon dioxide (CO2) in soil air *Toshio Kataoka*

PS7-1/02 Prediction of Vertical Distribution of 137Cs in Coniferous forest area of Takizawa experimental forest using Dynamic Modeling after Fukushima accident *Seongjoo Kang*

PS7-1/03 Assessment of radiation impact on biota as a result of hypothetical accidents at low-powered Nuclear Power Plant *Rena Mikailova*

PS7-1/04 Studies on the aerosols radioactivity level from the Horia Hulubei, National Institute for R&D in Physics and Nuclear Engineering area in the period 2007-2012 *Ana Stochioiu*

PS7-1/05 Estimation of total inventories and atmospheric fluxes of naturally occurring 210Pb from core sediments of Mumbai Harbour Bay using radiometric dating *Kumar Ajay*

PS7-1/06 Innovative modeling methodology for mapping of radon potential based on local relationships between indoor radon measurements and environmental geology factors. *Sara De Novellis*

PS7-1/07 Field Studies of Chronic Radiation Exposure in Plant Populations *Stanislav Geras'kin*

PS7-1/08 An example of radon mapping in Zhongshan City of China *Nanping Wang*

PS7-1/09 Phosphogypsum spread from the deposition site into the environment determined using radionuclides *Tomislav Bituh*

PS7-1/10 Utilising gaseous emissions of a proton accelerator facility as tracer for small-scale atmospheric dispersion *Gernot Butterweck*

PS7-1/11 ²¹⁰Pb-²²⁶Ra dating method for a sediment core of the Klingnau water reservoir, Switzerland *Maya Jäggi*

PS7-1/12 Accumulation of wet-deposited radiocaesium and radiostrontium by food and fodder crops *Stefan Bengtsson*

12:30-14:00 PS3-1: Emergencies, Safety & Security

PS3-1/01 Main achievements of the European research Project NERIS-TP *Wolfgang Raskob*

PS3-1/02 Regulations using to study probabilistic safety analysis on abnormal events at the iea-r1 nuclear research reactor *Valdir Lopes*

PS3-1/03 Environmental damage at talvivaara mining site - lessons learnt *Tarja K. Ikäheimonen*

PS3-1/04 Psychological factors of professional success of NPP main control room operators *Alexander A. Kossenkov*

PS3-1/05 Factor analysis of effectiveness of application of the radiological brigade in case of appearance of radiation accident *Sergey Natkha*

PS3-1/06 Methodological Approach to Individualized Dose Reconstruction for People Affected in the Result of the Accident at the Chernobyl NPP *Natalie Vlasova*

PS3-1/07 Dynamic external dose assessment by LES modeling of radioactive pollutant dispersion over an open field *Lieven Verweken*

PS3-1/08 Robust Bayesian Analysis for Identifying Unknown Source Information Applying Some Measurement Errors *Joo Yeon Kim*

PS3-1/09 Returning to normality after an event with dissemination of radioactivity over a large area *Emmanuel Egger*

PS3-1/10 Relevant lessons to be learned with the Fukushima nuclear accident *Rogério Gomes*

PS3-1/11 Elements of radioprotection culture at nuclear fuel plant Pitesti Romania *Tiberiu Ivana*

12:30-14:00 PS5-2: Measurements & Dosimetry

PS5-2/01 Natural radionuclides in waterworks – analysis of liquid and solid residues *Michael Stietka*

PS5-2/02 French population exposure to 50 Hz magnetic fields: update of the EXPERS study *Isabelle Magne*

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PS5-2/03 Evaluation of the uncertainties associated to the in vivo monitoring of iodine-131 in the thyroid
Rodrigo Gontijo

PS5-2/04 New method to calculate the efficacy of LaBr₃(Ce) scintillation detectors *Mahmoud Abbas*

PS5-2/05 Evaluation of the angular dependence of the spectrum - dose conversion operator of a CsI(Tl) scintillation detector in the contaminated environment *Shuichi Tsuda*

PS5-2/06 How effective is the discrimination of radon induced tracks with neutron dosimeters based on PADC? *Markus Boschung*

PS5-2/07 Online dose monitoring at the future SwissFEL free electron laser facility *Eike Hohmann*

PS5-2/08 Evaluation of a Beryllium Oxide Based Dosimetry System for Radiation Surveying
Frank Assenmacher

PS5-2/09 Development of tools for monitoring illicit or unintentional import/export of radioactive materials *Serge Bogni*

PS5-2/10 Study of a Li doped CsI scintillator crystal like a neutron detector *Tufic Madi Filho*

PS5-2/11 Instadose 2 Type Test Results *Kip Bennett*

PS5-2/12 An extended range passive radon measuring system *Antonio Parravicini*

PS5-2/13 A voxelized rodent model for dose calculation in experimental chronic internal contamination studies *Jean-Marc Bertho*

PS5-2/14 Silicone diode and beta measurement improvements *Pascal Martin*

PS5-2/15 The Newest Challenges of Personal Dosimetry in the Interventional Radiology and Cardiology
Petr Papirnik

PS5-2/16 Radiological characterization of activated Printed Circuit Boards for future elimination
Biagio Zaffora

PS5-2/17 A comprehensive new technique for peak identification in MCA spectrum with FPGA
Ashutosh Gupta

PS5-2/18 Dose response of EYE-DTM thermoluminescent dosimeters after sunlight exposure
Renata Kopeć

12:30-14:00 PS7-2: Radioecology & Environment

PS7-2/01 Radioactivity of Coal in Bosnia and Herzegovina and Justification for Use of Ashes and Slag in Construction *Lejla Saracevic*

PS7-2/02 Tritium sampling methods in the hydrologic cycle for the radiological monitoring of the French territory *Fabrice Leprieur*

PS7-2/03 Contemporary irradiation of murine rodents inhabiting East-Ural Radioactive Trace
Iliya Yarmoshenko

- PS7-2/04 Radon Soil Gas Measurements and Evaluation of Relevant Data for the Prediction of an Area's Radon Potential** *Franz Kabrt*
- PS7-2/05 Milk: a special case in radiological monitoring** *Thomas Boissieux*
- PS7-2/06 Development of an atmospheric tritium passive sampler for environmental monitoring** *Pedro Caldeira Ideias*
- PS7-2/07 Effect of potassium fertilizer on ¹³⁷Cs levels in forest plants and fungi in a boreal forest** *Bastian Niedrée*
- PS7-2/08 Radio-ecological monitoring at the uranium legacy sites** *Alexey Titov*
- PS7-2/09 Practical experience of radioactive waste management of nuclear medicine department after radioiodine therapy** *Olexii Zinvaliuk*
- PS7-2/10 Ecological half-life of radioactive caesium within 80 km-radius of the Fukushima Daiichi nuclear power plant** *Sakae Kinase*
- PS7-2/11 Iodine isotopes (I-127 and I-129) in soils from Germany** *Beate Riebe*
- PS7-2/12 Plankton of reservoir for liquid medium-level waste storing** *Natalya Atamanyuk*
- PS7-2/13 Radioecological impacts of direct application of phosphate rock (DAPR)** *Ashraf Khater*
- PS7-2/14 Technologically enhanced naturally occurring radioactive materials (tenorm) in iron and steel industry** *Ashraf Khater*
- PS7-2/15 Eighteen Years of continuous measurements of Radon progenies in outdoor air in Switzerland** *Philipp Steinmann*
- PS7-2/16 Quality assurance in cross-border monitoring of environmental radioactivity in the euro-arctic region** *Anna Nalbandyan*
- PS7-2/17 Portable Tritium Water Monitoring System Based on a CaF₂ Flow-Cell Detector Shielded with 3-cm Lead** *Takao Kawano*
- PS7-2/18 DeGeN – Measurement Vehicle for Radioactive and Nuclear Material** *Theo Köble*
- PS7-2/19 Radiation dose mapping on board the international space station using thermoluminescence dosimeters in the frame of the dosis and dosis 3d projects** *Christina Hofstätter*
- PS7-2/20 A simple sampling method for determining natural and artificial radioactivity in the environment** *Yvonne Hinrichsen*
- PS7-2/21 Radiolabelled Drug Development Candidates – Synthesis, Application and Radiation Protection** *Norbert Zoubek*
- PS7-2/22 Multivariate analysis of release and environmental monitoring data from Swedish nuclear facilities** *Charlotte Lager*
- PS7-2/23 Atmospheric stability analysis using measured meteorological data** *Tamás Pázmándi*

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PS7-2/24 Modeling radionuclide transport in major rivers *Tamás Pázmándi*

12:30-14:00 PS4-1: Fundamentals & Regulation

PS4-1/01 The Implementation of Clinical Audits in Switzerland *Michael Gasser*

PS4-1/02 Transposing the EURATOM BSS for Medical Exposures – the Swiss Way *Barbara Ott*

PS4-1/03 User interface features of information-analytical system for radiation safety of personnel on the example of Northwest Center for Radioactive Waste Management *Ilya Kudrin*

PS4-1/04 Asbestos management in a nuclear environment: Industrial challenges and applicability of regulations *René Blanc*

PS4-1/05 Monitoring the eye lens: How do the international organisations react? *Rolf Behrens*

PS4-1/06 Regulation of radiation doses received during high altitude mountaineering expeditions *Robert Kerr*

PS4-1/07 Dazed and confused: the Radiation Protection Philosophy at the crossroads? *Bernd Lorenz*

PS4-1/08 The Proper Radiation Protection Balance *Hartmut Schulze*

12:30-14:00 PS5-3 : Measurements & Dosimetry

PS5-3/01 Measurement Program for Surface Activity of Activated Corrosion Products by in-situ Gamma Spectrometry Method in Chinese Nuclear Power Plant *Qinjian Cao*

PS5-3/02 Quick screenings of indoor airborne iodine-131 using peelable polymer-based thin film decontamination agents *Yung-Chang Lai*

PS5-3/03 Assessment of annual whole-body occupational radiation exposure in education, research and industrial sectors in Ghana (2000-09) *Francis Otoo*

PS5-3/04 Low dose neutron measurements with a wendi-2 neutron detector in the vicinity of CERN's sps accelerator *Fabio Pozzi*

PS5-3/05 The radiation protection implementation and capabilities of the future CERN calibration facility *Fabio Pozzi*

PS5-3/06 The Patients' and Staff's Doses During Radiological Procedures *Daniela Mossang*

PS5-3/07 Radiation dose evaluation of computed tomography in nuclear medicine *Diego Mauricio Orejuela*

PS5-3/08 Optically stimulated luminescence in electronic components for emergency dosimetry *Therese Geber-Bergstrand*

PS5-3/09 Urinary normalization method using potassium concentration in spot urine *Jaeryong Yoo*

PS5-3/10 Deconvolution of the airborne gamma-ray spectrometry data *Jana Timkova*

PS5-3/11 Some recommended practices for the evaluation and measurement of electromagnetic field levels in work and living environment *Cristian Goiceanu*

- PS5-3/12 Radon gas and natural gamma radiation in metamorphic and pegmatite terrains: the case of the municipalities of Equador and Parelhas (RN, BRAZIL)** *Thomas Campos*
- PS5-3/13 How to transform a nail into a hay stack – key processes in simulating a proper plastic scintillator spectrum from a Monte Carlo modeled energy deposition peak** *Jenny Nilsson*
- PS5-3/14 Work places monitoring with recombination chambers** *Natalia Golnik*
- PS5-3/15 Dose response of thermoluminescent detectors in extremity ring and eye lens dosimeters after different method of sterilization** *Renata Kopec*
- PS5-3/16 Practical use of household salt for retrospective dose assessments using OSL** *Maria Christiansson*
- PS5-3/17 Current Status of a Carborne System, KURAMA/KURAMA-II** *Minoru Tanigaki*
- PS5-3/18 Gate Simulations for Specific Absorbed Fractions of Electrons and Photons Using ICRP/ICRU Reference Computational Phantoms** *Gustavo Costa*
- PS5-3/19 Measurement and Analysis of gamma spectrum at Korean PWRs with CZT detector** *Seo Kon Kang*

Thursday, June 26, 2014

10:30-11:30 PS1-2: Biological Effects

- PS1-2/01 Evaluation of Morphological and Functional Properties of Human Skin Fibroblasts After Ionizing Radiation Exposure** *Ilya Eremin*
- PS1-2/02 Radiation risk of malignant neoplasms of lymphatic and hematopoietic tissue among Mayak PA workers** *Elena Labutina*
- PS1-2/03 Radiation-induced alteration of immune response in East-Ural Radioactive Trace population** *Iliia Yarmoshenko*
- PS1-2/04 Early changes in the expression of HSP70 in NB69 by exposure to radiofrequency modulated signals** *Alejandro Ubeda*
- PS1-2/05 Effects of a 50 Hz magnetic field on adipogenesis: experimental approach to the etiology of semicircular lipoatrophy** *Alejandro Ubeda*
- PS1-2/06 The frequency of lymphocytes with micronuclei in the first generation offsprings, whose fathers were affected by radiation exposure** *Luliia Akhmadullina*
- PS1-2/07 Light emission as a possible cause of epilation recorded among survivors of the atomic bombing of Hiroshima** *Evgeniya Granovskaya*
- PS1-2/08 Preliminary Validation of Apparent Source Analysis Methods for Laser and Broadband Radiation** *Karl Schulmeister*
- PS1-2/09 Cells at high-dose exposure may get some help from the neighbor cells exposed to low-dose radiation** *Min-Ho Lee*

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PS1-2/10 Mortality analysis in the French cohort of uranium miners: extended follow-up (1946-2007)
Estelle Rage

PS1-2/11 Modeling ionization effects in a BNCT field *Saeed Mohammadi*

PS1-2/12 Importance of new detector technologies and software developments on radiation absorbed dose reduction to the patients *Bengul Gunalp*

PS1-2/13 Measurement of positron emitting radionuclides' activity and their use for the calibration of the PET calibrators *Maria Sahagia*

PS1-2/14 The ELF Magnetic Field Near Power Lines: Results of Long-term Monitoring *Anastasia Prokofieva*

PS1-2/15 Radiation risk of cancer among Nuclear Power Plant workers *Nina Chobanova*

10:30-11:30 PS6-4: Radiation Protection in Medicine

PS6-4/01 Measurements of environment doses attributed to post-surgical thyroid cancer patients inside an I-131 therapy ward *Yung-Chang Lai*

PS6-4/02 Study on Optimization of the Injected Activity in Myocardial Perfusion Scintigraphy *Susie Ramos*

PS6-4/03 Estimating Foetal radiation risk from CT *Hager Kamoun*

PS6-4/04 Radiologic staff knowledge's about radiation hazards and health effects on pregnancy
Hager Kamoun

PS6-4/05 Development and implementation of tools for self-monitoring of staff exposed to 131I in nuclear medicine centers of Chile *Marcia García*

PS6-4/06 The challenges of using Zr-89 in Nuclear Medicine, radioactive blood samples and more
Linda Janssen-Pinkse

PS6-4/07 Implementing selective splitting and russian roulette in Monte Carlo calculations of the specific absorbed fractions *Gloria Díaz Londoño*

PS6-4/08 The importance of radiation dosimetry in occupationally exposed workers and auxiliaries in veterinary radiology *Leticia Rodrigues*

PS6-4/09 Assessment of Potential Exposure for Medical Staff in I-131 Therapy Applying Probabilistic Risk Analysis *Han Ki Jang*

PS6-4/10 Computer-aided intervention planning for high-energy particle accelerator facilities
Thomas Fabry

PS6-4/11 Analysis of high staff radiation dose during X-ray guided pain therapy *Wendy Mahn*

12:30-14:00 PS3-2: Emergencies, Safety & Security

PS3-2/01 Use of a web based scoring method for an intercomparison of the dicentric chromosome assay within seventeen European biodosimetry laboratories *Horst Romm*

PS3-2/02 Center for the treatment of radio-contaminated wounded (CTBRC): a French concept in evolution *Jean-Christophe Amabile*

PS3-2/03 Monitoring radioactivity in Dutch food *Mark van Bourgondien*

PS3-2/04 RADShip: A Software Tool for Managing Shipments of Radioactive Material Worldwide *Yann Donjoux*

PS3-2/05 Compact Unmanned Aerial Radiation Surveillance System for Search of Orphan Sources and Assessment of Radioactive Contamination during Radiological Emergencies *Jis Romal Jose*

PS3-2/06 Core Meltdown Accidents in Europe and Lessons Learned *Helena Janzekovic*

PS3-2/07 Overview of physical dosimetry methods for triage application integrated in the new European network RENEb *François Trompier*

PS3-2/08 Development of a software platform for providing environmental monitoring data for the Fukushima Daiichi nuclear accident *Akiyuki Seki*

PS3-2/09 Preventing the Hematopoietic Subsyndrome of Acute Radiation Syndrome via Partial Bone Marrow Shielding *Oren Milstein*

PS3-2/10 Radioactivity in food: media reporting and public attitudes *Catrinel Turcanu*

PS3-2/11 INEX-4 exercise on consequence management and the transition to recovery- an update *Halil Burcin Okyar*

PS3-2/12 Cytogenetic biodosimetry for radiation emergencies: Application of image analysis and its advantage for small networks *Nataliya Maznyk*

PS3-2/13 International short-term countermeasures survey - 2012 update *Halil Burcin Okyar*

PS3-2/14 Do we care? Feeling of solidarity in the case of nuclear accidents *Tanja Perko*

PS3-2/15 How does the mass media report and interpret radiation data? The results of a media content analysis *Tanja Perko*

PS3-2/16 C3X : A software platform for assessing the consequences of radioactive atmospheric releases *Marilyne Tombette*

PS3-2/17 scenarX : A software platform for environmental measurement preparation and animation of crisis exercises *Emmanuel Quentric*

PS3-2/18 Review of radiation protection significant events in the medical field notified to the French Nuclear Safety Authority for the period 2007-2013 *Carole Rousse*

PS3-2/19 Mineralogical influences on the exhalation of thoron from clay as a building material *Oliver Meisenberg*

PS3-2/20 Development of Radiological Aerial Monitoring System in Korea *Hyeong-Ki Shin*

PS3-2/21 Monitoring and evaluation of uranium isotopes & Ra-226 concentrations in underground and surface water samples released from a phosphogypsum disposal area *Konstantina Kehagia*

PS3-2/22 Regulatory control of medical X-ray facilities in Spain *Isabel Sierra*

PS3-2/23 Experience of Information Dissemination on Radiation Protection after the Fukushima Accident *Haruyuki Ogino*

PS3-2/24 Dose Measurements on Dental Tomographs and CBCTs. Towards a national DAP reference level *Hanne N Waltenburg*

PS3-2/25 Activity levels of radionuclides in milk samples from Serbia *Marija Jankovic*

12:30-14:00 PS5-4 : Measurements & Dosimetry

PS5-4/01 Spanish 2013 Comparison of External Personal Dosimetry Services in photon fields *Merce Ginjaume*

PS5-4/02 Conversion Coefficients to Personal Dose for 1250 Radionuclides *Thomas Otto*

PS5-4/03 Quality assurance in gamma-ray spectrometry on air samples with regard to inconstant flow rate *Branko Petrinc*

PS5-4/04 Analysis of measurement data obtained by the PILLE thermoluminescent space dosimetry system on board ISS between 2003 and 2011 *Tamás Pázmándi*

PS5-4/05 Development of a Prototype Hot Spot Detection and Identification System *Amit Jain*

PS5-4/06 A critical review of performance requirements for personal dosimetry systems in mixed radiation fields *Michael Hajek*

PS5-4/07 Measurement of skin doses on patients during chemoembolisation procedures *Marija Majer*

PS5-4/08 Internal Dosimetry after Inhalation of UF₆ - A Case Study *Martina Froning*

PS5-4/09 Comparison of various detection systems in real fission field *Pavel Žlebčík*

PS5-4/10 MC-ICP-MS determination of Sr-90 in mBq activity level *Myroslav Zoriy*

PS5-4/11 Improvment of SSDL/IRB Uncertainty Budget *Maja Vojnić Kortmiš*

PS5-4/12 Assessment of peadiatric radiation dose from routine x-ray examination in TAIF *Hamid Osman*

PS5-4/13 Estimation of breast dose and cancer risk in chest and abdomen ct procedures *Abdelmoneim Sulieman*

PS5-4/14 Measurements of Radiation dose in Paediatric Micturating Cystourethrography *Khalid Alzimami*

PS5-4/15 Measurements of Patient Radiation dose in Routine Radiographic procedures *Abdelmoneim Sulieman*

PS5-4/16 Mobile Linear Accelerators and Health Risk *Olivera Marinkovic*

PS5-4/17 Fast neutron dosimeter using detector Timepix *Boris Bulanek*

PS5-4/18 Results from ec interlaboratory comparison on gross alpha/beta activity measurement in drinking waters in 2012 *Gordana Pantelic*

PS5-4/19 Production of radioactive reference sources for IGOR phantom using epoxy resin *Claude Bailat*

PS5-4/20 Photoluminescence and Thermoluminescence Spectral Study of Irradiated Cu-Doped Barium Oxyfluoroborate Glasses *Hossam Donya*

PS5-4/21 Energy-absorption coefficient, effective atomic number and effective electron density of tissue-equivalent Li₂O- B₂O₃ glass system at different gamma energies *Hossam Donya*

PS5-4/22 Co-60 in metallic consumer goods *Frank Meissner*

PS5-4/23 An assessment of the hazards of 'blue' laser pointers *Colin Swift*

PS5-4/24 Radiation Shielding of Personal Protective Equipment *Michaela Kozlovská*

PS5-4/25 Environmental Monitoring in the Netherlands at RIVM *Cristina Tanzi*

PS5-4/26 Erkunder-Simulation – a new tool for realistic exercises in radiological and nuclear emergency response *Oliver Meisenberg*

PS5-4/27 Safety and Security of Radioactive Materials Used in Nepal *Kanchan P. Adhikari*

PS5-4/28 IR-induced cellular responses determine the fate of cells *Mi Young Kang*

PS5-4/29 The effect of errors in the height and weight value on the chest thickness and detection efficiency of a lung counter *Jong Il Lee*

PS5-4/30 Basic Aspects for Radiation Dosimetry at ELI-NP *Sorin Bercea*

PS5-4/31 Beam/Process Dosimetry for ELI-NP *Elena Iliescu*

PS5-4/32 On-line training in radiological protection: master's degree in radiological protection in radioactive and nuclear installations *Gumersindo Verdú Martín*

PS5-4/33 Aerosol-borne radioactivity monitoring and sampling design *Jan Züllig*

PS5-4/34 A River Runs Through It: Environmental Remediation of the mixed contamination of the Winterbeek river in a multi-level regulatory context *Geert Biermans*

PS5-4/35 Calculation method for the maximum permissible ambient dose rate of multi-detector CT scanners to check the appropriate construction of the room shielding *Reto Treier*

PS5-4/36 Analysis of the dead layer in an HPGe detector using the Monte Carlo code Sword-Geant *Gumersindo Verdú*

PS5-4/37 Clinical evaluation of specific developed phantom and software to assess the radiological equipment image quality *Francisco Rodenas*

PS5-4/38 Indoor air quality in new or renovated energy-efficient buildings Preliminary results of radon measurement campaigns in French and Italian parts of Switzerland *Joëlle Goyette*

POSTER SESSIONS

- PS5-4/39** Commercially Available Fast Neutron Detectors for Neutron Dosimetric Studies *Ulisse Gendotti*
- PS5-4/40** Estimation of indoor radon concentrations in the republic of Moldova *Liuba Coretchi*
- PS5-4/41** Radiation detection properties of CMOS sensor of smart phones *Filip Vanhavere*
- PS5-4/42** A proof of the sum rule for point sources of external radiation as an upper estimate for exposure *Cristina Tanzi*
- PS5-4/43** Why quality controls such as passive radon detector intercomparisons and validation schemes are still necessary? *Zornitza Daraktchieva*
- PS5-4/44** Hair as a Bioindicator to Determine the Body Content of ^{210}Po in Humans *Christopher Rääf*
- PS5-4/45** Measurement of Radon Concentration of Air Samples and Estimating Radiation Dose from Radon in SARI Province *Seyed Ali Rahimi*
- PS5-4/46** Characterization of an electronic device for surveilling personal radon exposure and dose in real time *Julien Vilert*
- PS5-4/47** The Use of Integral Gamma-ray Measurement Chambers as Part of the Clearance Procedure for Material from CERN's Accelerators and Experimental Facilities *Nick Walter*
- PS5-4/48** Contribution on evaluation of the implementation and use of individual active neutron dosimeters in Brazil. *Carmen Pilar Castro Barrientos*
- 12:30-14:00 PS8-2: Radiation protection of the Public**
- PS8-2/01** Elevated indoor radon exposure in energy efficient multi-storey buildings *Iliya Yarmoshenko*
- PS8-2/02** Radioactivity as risk component at urban contaminated sites – a multidisciplinary challenge *Rainer Gellermann*
- PS8-2/03** Main Directions of Russia Activity in the Field of Radiation Protection and Public Health *Mariya Semenova*
- PS8-2/04** Provability index - a new concept to evaluate the margin of radiation protection *Haruyuki Ogino*
- PS8-2/05** Estimation of the total radiation dose of Cesium-137 to the Austrian population during the post Chernobyl period of about 30 years *Merita Sinojmeri*
- PS8-2/06** Cat feces contaminated with I-131 in a playground *Kees Vos*
- PS8-2/07** Gamma Hungry: A First Step Towards a Bioreactor for Radioactive Waste Remediation and Electrogenesis *Aaron Berliner*
- PS8-2/08** Radiation safety concerns within an I-131 therapy ward for housekeeping personnel *Wei-Ling Cao*
- PS8-2/09** In-situ measurements of shielding factors for the wooden houses in the Fukushima nuclear exclusion zone *Hiroko Yoshida-Ohuchi*

PS8-2/10 On the features of a modern environmental radiation survey or monitoring system

Shiang-Huei Jiang

PS8-2/11 ALARA Design for Korean APR1400 *Seung Gi Lee*

PS8-2/12 Potential household contamination from a hospital discharged thyroid I-131 treatment patient — Example on detailed Iodine Therapy Ward surveillance tests *Mei-Ling Chung*

PS8-2/13 Statistical overview of cosmic-ray induced dose on aircrews flying over south America and Caribbean regions *Claudio Federico*

PS8-2/14 Estimation of lung cancer risk from indoor radon in the general Japanese population

Akihiro Sakoda

PS8-2/15 Assessment of Radiological risks associated with rehabilitation of SevRAO

PS8-2/16 The automated Radonexposimeter "au.raex" *Tina Orovwighose*

PS8-2/17 Indoor radon in dwellings from an active volcanic region: Chã das Caldeiras (Island of Fogo, Cape Verde) *Luis Neves*

12:30-14:00 PS9-2: Radiation protection of Workers

PS9-2/01 Accelerated Reactor Decommissioning at Bradwell Site: Practical Experiences from the Radiological Protection Department *Kirandeep Basra-Steele*

PS9-2/02 Individual radiological monitoring for exposed personnel in nuclear fuel plant pitesti

Tiberiu Ivana

PS9-2/03 Assessment of radiation shielding design of nuclear gauges *Màra Lucia de Lara Costa*

PS9-2/04 Monitoring of workers for internal exposure in case of occupational uranium intakes: some aspects of the dose assessment *Evgeniya Granovskaya*

PS9-2/05 Dealing with uncertainties – treatment of radiation sources detected in waste streams

Robert Schulze

PS9-2/06 Inventory of Radioactive Sources for radiation protection purposes in Kenya *Anthony Shadrack*

PS9-2/07 Radiation Protection Program in an Experimental Multimodal Imaging Service *MÈ Teresa MacÕas*

PS9-2/08 Estimation of the X-ray component around plasma-focus device *Kamil Szewczak*

PS9-2/09 Proposal for the Construction of Alpha Curves *Clarice Perez*

PS9-2/10 ISOE expert group reports *Halil Burcin Okyar*

PS9-2/11 Integrated Regulatory Supervision of Radiation Protection in Swiss Nuclear Facilities

Swen-Gunnar Jahn

PS9-2/12 Twenty years' activity of the radiological protection service at el cabril storage facility in Spain

L. Fuentes

POSTER SESSIONS

PS9-2/13 Evolution of the regulatory body capabilities-concern of civil society-case study

Gabriela Rosca Fartat

PS9-2/14 THE IMPORTANCE OF ceiling-suspended lead shield use IN INTERVENTIONAL RADIOLOGY

Regina Bitelli Medeiros

PS9-2/15 An overview of Ionizing Radiation Hygiene Laboratory activity *Gabriela Rosca Fartat*

PS9-2/16 Organization and Prospects of a Medical Surveillance Service for Workers Exposed to Ionizing Radiation *Raffaele Pennarola*

PS9-2/17 Measurement of ²²²Rn air concentration in a spanish wastewater treatment plant

Gumersindo Verdú

PS9-2/18 Determination of radiation dose at the operator position of a mammography equipment

Jacqueline Barreira

PS9-2/19 Development of Virtual Reality-Based Simulation System for Nuclear and Radiation Safety and Its Application to Fusion and Fission *Zhang Shu*

PS9-2/20 Determining the most appropriate cohorts for low dose research purposes: a multidimensional puzzle *Eileen Pernot*

15:30-16:30 PS4-2: Fundamentals & Regulations

PS4-2/01 Russian national and international efforts in nuclear legacy regulation *Mariya Semenova*

PS4-2/02 Planning of optimal measurement schedule during defining functional dependence *Ilya Kudrin*

PS4-2/03 Transcriptome-wide studies of mitogenic pathways for prescription of anti-cancer treatment

Nikolay Borisov

PS4-2/04 Individual sensitivity to ionizing radiations: how can the radiation protection system meet the challenge ? *Michel Bourguignon*

PS4-2/05 Implications of the Implementation of the Revised Dose Limit to the Lens of the Eye: The view of the IRPA professionals *Marie Claire Cantone*

PS4-2/06 Optimisation and Dose Constraint: Valuable Principles for Radiological Protection?

Christian Streffer

PS4-2/07 Methodology to engage the stakeholders in the management of radioactively contaminated consumer goods spanish approach *Milagros Montero*

PS4-2/08 Rigorous training is a fundamental of radiation protection of ionizing radiation – Experience of training supervisor *Susanne Dr. Schlagner*

PS4-2/09 An expert group report- discussion on implementation of ICRP recommendations concerning reference levels and optimisation *Halil Burcin Okyar*

15:30-16:30 PS6-5: Radiation Protection in Medicine

PS6-5/1 QA tests of radiological installations performed in 2011-2012 by Laboratory of Individual and Environmental Dosimetry - statistical analysis of results *Izabela Milcewicz-Mika*

PS6-5/02 Development of the Internal Dosimetry Code for Nuclear Medicine Workers *Siwan Noh*

PS6-5/03 The use of glass dosimeter in patient dosimetry *Saveta Miljanic*

PS6-5/04 Collection of data on medical doses in Russia (medical institutions at FMBA of Russia)
Dmitry Isaev

PS6-5/05 Implementation of the Dose Constraint Concept in Optimization of Occupational Exposure in Nuclear Medicine Sector in Poland *Grazyna Krajewska*

PS6-5/06 Orthopedist's hands radiation doses during orthopedic surgery procedures *Amin Elzaki*

PS6-5/07 Individual radiosensitivity and antioxidant-oxidant status assessment in health workers exposed to ionizing radiation *Natividad Sebastià*

PS6-5/08 Equipment and IEC Standards: Key Players in Radiation Protection of the Patient *Jim Malone*

PS6-5/09 Evaluation of exposure to ionizing radiation in interventional radiology using monte carlo methods *Renata Kopec*

PS6-5/10 Follow up of RELID STUDY (Retrospective Evaluation of Lens Injuries and Dose) in Latin America
Eliseo Vañó

PS6-5/11 Reducing radiation exposure for physicians and staff in applying disposable flexible shields in interventional radiological and cardiological procedures *Martine Lagerweij*

PS6-5/12 Development of a new HYSPLIT national dispersion emergency response modelling system in Ireland *Kilian Smith*

PS6-5/13 Elevated Population-Based Rates of Congenital Malformations (CM) in a Chernobyl Ionizing Radiation (IR) Impacted Rivne (R) Province of Ukraine *Wladimir Wartelecki*

PS6-5/14 Thinking about buying hand-held dental X-ray equipment online? Ensure it is safe to use
Navneet Dulai

PS6-5/15 Radiological tests with a gamma portal monitor *Marcel Arnold*

PS6-5/16 Application of Mammography QC-Software in the evaluation of the image quality and average glandular dose for two digital mammography systems *Kellen Daros*

PS6-5/17 Response Improved for Lung Neutron Counter *Yanan Li*

PS6-5/18 Comparative Studies on Permanent Prostate Brachytherapy: Pre-plan and Real-time Transrectal Ultrasound Guided Iodine *Tegemea Lawrence Kalolo*

Contact information

4th European IRPA
Congress Secretariat

SYMPORG SA
Rue Rousseau 30
CH-1201 Geneva, Switzerland
Tel. +41-22 / 839.84.84
Fax +41-22 / 839.84.85
www.symporg.ch

www.irpa2014europe.com
info@irpa2014europe.com