



European Conference on Individual Monitoring of Ionizing Radiation
8-12 March 2010
Athens, Greece
PROVISIONAL PROGRAMME (16.02.2010)

Monday, 8 March 2010

08:00- 09:00 Registration and poster mounting

New developments in international recommendations and requirements

Chairpersons: H. Schuhmacher, E. Fantuzzi

09:00 - 09:25	<i>R. Czarwinski, M.Crick</i>	Invited lecture – Worldwide occupational exposures and revisions to international standards for protection - A view from IAEA and UNSCEAR
09:25 - 09:50	<i>S. Mundigl</i>	Invited lecture - Revision of the EURATOM Basic Safety Standards Directive- Current status
09:50 - 10:15	<i>J.G.Alves, P.Ambrosi, D.T.Bartlett, L.Currivan, J.W.E.van Dijk, E.Fantuzzi, V.Kamenopoulou</i>	Invited lecture - The new European Commission technical recommendations for monitoring individuals occupationally exposed to external radiation
10:15 - 10:40	<i>P. Ambrosi</i>	Invited lecture - International standards for radiation protection
10:40 - 10:55	<i>M. Voytchev, P. Ambrosi, R. Behrens, P. Chiaro</i>	IEC standards for individual monitoring of ionizing radiation
10:55 - 11:25	Coffee break	

Practical implementation of standards and regulations – Quality management systems

Chairpersons: R. Czarwinski, S. Mundigl

11:25 - 11:50	<i>K. Henrichs</i>	Invited lecture - Application of ISO standard 27048-Dose assessment for the monitoring of workers for internal radiation exposure
11:50 - 12:05	<i>P. Hill, M. Froning, M. Schläger, M.V.Zoriy, R. Lennartz</i>	Accreditation of testing laboratories in dosimetry: the use of a flexible scope at the competent incorporation measuring body Jülich
12:05 - 12:20	<i>M.Jafarizadeh, F.Nazeri, F.Gheshlaghi, M.Darabi, T.Oruji, Z.Gholamalizadeh, M.R.Kardan, N.Rastkhah</i>	Occupational dose assessment and national dose registry system in Iran
12:20 - 12:35	<i>R. Cruz Suárez, J. Zeger, J. Hunt, R. Czarwinski</i>	Lessons learnt during the ISO 17025 accreditation processes at the IAEA radiation protection and monitoring services
12:35 - 13:10	Poster Session Rapporteurs: J. van Dijk, T. Grimbergen, H. Stadtmann, A.M. Romero	

13:10 - 14:10 Lunch

Chairpersons: T. Grimbergen, A.M. Romero

14:10 - 14:35	<i>J.W.E.van Dijk</i>	Invited lecture - Developments in uncertainty analysis for individual monitoring
14:35 - 14:50	<i>P. Gilvin, A. McWhan</i>	Different versions of the right answer: the importance of measurement uncertainty in radiation dosimetry
14:50 - 15:05	<i>D. Souza Santos, C.L. P. Mauricio, E. S. Duré</i>	Calculation of uncertainties in a film and a TLD dosimetry services
15:05 - 15:20	<i>R. Behrens</i>	Uncertainties in external dosimetry: analytical vs. Monte Carlo approach
15:20 - 15:35	<i>H. Stadtmann, C. Hranitzky</i>	Uncertainty assessment of a two element LiF:Mg,Ti TL personal dosimeter using Monte Carlo simulation techniques
15:35 - 16:10	Poster Session Rapporteurs: J. van Dijk, T. Grimbergen, H. Stadtmann, A.M. Romero	
16:10 - 16:40	Coffee break	
Chairpersons: J. van Dijk, H. Stadtmann		
16:40 - 16:55	<i>M. Lehtinen, R. Havukainen</i>	The national dose register in Finland, M. Lehtinen
16:55 - 17:10	<i>A. Fremout, S. Léonard, M. Van Belle</i>	Electronic radiation passport fully integrated in dose register: first step towards a European radiation passport?
17:10 - 17:25	<i>M. Moser, D. Frei, R. Elmiger, B. Gerber</i>	50 years of individual monitoring of ionizing radiation in Switzerland: history, trends, perspectives
17:25 - 17:40	<i>R. Cruz Suárez, J. Hunt, R. Czarwinski</i>	ORPAS - a tool for verification of compliance with the IAEA safety requirement in occupational radiation protection
17:40 - 17:55	<i>R.Cruz Suarez, Ramirez Raul et al.</i>	Current situation and future challenges on occupational radiation protection in Latin-America, A. Rojo
17:55 - 18:10	<i>R. Cruz Suarez, D .Nosske, D. Souza et al.</i>	Radiation protection for pregnant workers and their offspring. A recommended approach for monitoring
18:15 - 20:00	Opening ceremony Welcome Cocktail	

Tuesday, 9 March 2010

Developments in external dosimetry systems

Chairpersons: J.Alves, M. Figel

08:30 - 08:55	<i>M. Ginjaume</i>	Invited lecture - Performance and approval procedures for active personal dosimeters
08:55 - 09:10	<i>A.Fiechtner, M. Boschung, S. Mayer, A. Whitelaw</i>	Influence of variation of etching conditions on the sensitivity of CR-39 detectors with a new evaluation method
09:10 - 09:25	<i>C.N. Passmore, M. Kirr</i>	Neutron response characterization of an aluminum oxide neutron detector
09:25 - 09:40	<i>M. Moscovitch, L. Benevides, A. Romanyukha, F. Hull, M. Duffy, S. Voss, K. J. Velbeck, I. Nita</i>	The applicability of the PTTL dose re-analysis method to the Harshaw LiF:Mg,Cu,P material

09:40 - 09:55	<u>L. Benevides</u> , A. Romanyukha, F. Hull, M. Duffy, S. Voss and M. Moscovitch	Uncertainties associated with the use of optically stimulated luminescence in personnel dosimetry
09:55 - 10:10	H. Silva, <u>J.Cardoso</u> , C.Oliveira	Development of a new ionization chamber, for $H_p(10)$ measurement, using Monte Carlo simulation and experimental methods
10:10 - 11:00	Poster session Rapporteurs: J.Alves, M.Figel, J.F. Bottollier	
11:00 - 11:30	Coffee break	
11:30 - 11:45	<u>V. Chumak</u> , E.Bakhanova	Conceptual design of a personal dosimeter with response uniform in terms of effective dose
11:45 - 12:00	A.Boziari, <u>C.Koukorava</u> , E.Carinou, C.J.Hourdakis, V.Kamenopoulou	The use of active personal dosimeters as a personal monitoring device – comparison with TL dosimetry
12:00 - 12:15	<u>D. Ponraju</u> , H. Krishnan, S. Viswanathan, R. Indira	Bubble detector for personnel neutron dosimetry
12:15 - 12:30	<u>S. D. Monk</u> , M. Selwood	A Monte Carlo simulation of a 4 band neutron spectrometer utilising silicon based collection techniques
12:30 - 12:45	<u>F. Mariotti</u> , E. Fantuzzi, B. Morelli, G. Gualdrini, M.C. Botta, G. Uleri	ENEA Extremity dosimeter based on LiF(Mg,Cu,P) to measure $H_p(3,\alpha)$
12:45 - 13:45	Lunch	

Intercomparison exercises

Chairpersons: R. Cruz-Suarez, V. Kamenopoulou

13:50 - 14:15	<u>T.W.M. Grimbergen</u> , M. Figel, A. M. Romero, H. Stadtman, A.F. McWhan	Invited lecture - EURADOS self sustained programme of intercomparisons for individual monitoring services
14:15 - 14:40	<u>H. Stadtman</u> , T.W.M. Grimbergen, M. Figel, A. M. Romero, A.F. McWhan	Invited lecture – Results of the EURADOS extremity dosimeter intercomparison 2009
14:40 - 14:55	J. Zeger, R. Cruz Suárez, J. Hunt	Intercomparison on measurements of the quantity personal dose equivalent $H_p(10)$ in photon fields in the Africa region
14:55 - 15:10	<u>L. Stadnyk</u> , I. Panchenko	Quality control system of measurements in the center of personal dosimetry in Ukraine: Lessons learnt from the intercomparisons
15:10 - 15:35	P. Berard, D. Franck	Invited lecture - National and international interlaboratories comparisons organised in France: a tool for the validation of in-vitro and in vivo-methods
15:35 - 15:50	<u>B.M. Dantas</u> , A.L.A. Dantas, D.S. Santos, R. Cruz-Suárez	IAEA region intercomparison of in vivo measurements of I-131 in the thyroid: the South American and Caribbean experience

15:50 - 16:05	<i>M. A. Lopez, D. Broggio, K. Capello, E. Cardenas-Mendez, N. El-Faramawy, D. Franck, A.C. James, G.H. Kramer, G. Lacerenza, T.P. Lynch, J.F. Navarro, T. Navarro, B. Perez, W. Rühm, E. Weitzenegger</i>	EURADOS intercomparison on measurements and Monte Carlo modeling for the assessment of americium in a USTUR leg phantom
16:05 - 16:40	Poster session Rapporteurs: T. Grimbergen, D. Franck, V. Kamenopoulou Special Poster Session: Presentation of IMS Rapporteur: E. Carinou	
16:40 - 17:10	Coffee break	
Satellite Meetings		
09:00- 17:00	The ISO WG13 Internal Dosimetry meeting	
17:15 - 19:15	Intercomparisons	

Wednesday, 10 March 2010

Developments in internal dosimetry systems

Chairpersons: M.A. Lopez, D. Franck

08:30 - 08:55	<i>D. Noßke, E. Blanchardon, W.E. Bolch, B. Breustedt, K.F. Eckerman, A. Giussani, J.D. Harrison, W. Klein, R.W. Leggett, M.A. Lopez, A. Luciani, M. Zankl</i>	Invited lecture - New developments in internal dosimetry models
08:55 - 09:10	<i>G. H. Kramer, B. M. Hauck</i>	Using radioactive people to calibrate/test emergency response equipment
09:10 - 09:25	<i>J. Damet, F.O. Bochud, C. Bailat, J.P. Laedermann, S. Baechler</i>	Variability of radioiodine measurements in the thyroid
09:25 - 09:40	<i>S. Mekki, C. Bouvier-Capely, R. Jalouali, F. Rebière</i>	The extraction of thorium by calix[6]arene columns in the aim of urinary analysis
09:40 - 09:55	<i>P. C. P. Fernandes, W.O.Sousa, L.M.Q.C. Julião, B.M.Dantas</i>	Development of a technique for the determination of ²²⁶ Ra and ²²⁸ Ra in biological samples by liquid scintillation
09:55 - 10:10	<i>O. Marzocchi, B. Breustedt</i>	Theoretical assessment of whole body counting uncertainties using numerical phantoms of varying sizes and sexes
10:10 - 10:25	<i>J.Farah, D. Broggio, D. Franck</i>	Creation and use of adjustable 3D phantoms: application for the lung monitoring of nuclear workers

10:25 - 11:10	Poster session Rapporteurs: C-M. Castellani, M-A. Lopez, D. Franck, R. Cruz –Suarez, B. Breustedt	
11:10 - 11:40	Coffee break	
Chairpersons: C-M. Castellani, B. Breustedt		
11:40 - 11:55	<i>M. A. Lopez, E. Blanchardon, B. Breustedt, D. Broggio, C.M. Castellani, D. Franck, A. Giussani, C. Hurtgen, A.C. James, G.H. Kramer, J.W. Marsh, D. Nosske, U. Oeh, J. Schimmelpfeng, T. Vrba and the rest of EURADOS WG7 members</i>	EURADOS coordinated action on research, quality assurance and training of internal dose assessments
11:55 - 12:10	<i>D. Gregoratto, M.R. Bailey, J.W. Marsh</i>	Modelling particle clearance in the alveolar-interstitial region of the lungs
12:10 - 12:25	<i>T. Vrba</i>	Head calibration phantoms for actinides: measurements and simulations
12:25 - 12:40	<i>X. G. Xu</i>	Deformable phantoms for external and internal dosimetry: a review of the latest development
12:40 - 12:55	<i>E. Davesne, P. Casanova, E. Chojnacki, F. Paquet, E. Blanchardon</i>	Optimisation of internal monitoring programme by integration of uncertainties
12:55 - 13:10	<i>I. Bonchuk, I. Likhtarev, V. Berkovski</i>	Individual monitoring of internal exposure at the shelter object
13:10 - 13:25	<i>I. Guseva Canu, D. Laurier, S. Caër-Lorho, E. Samson, B. Auriol, M. Tirmarche, B. Quesne, E. Rongier, E. Blanchardon</i>	Comparison of epidemiologic and dosimetric approaches in characterisation of workplace protracted exposure to uranium
13:25 - 13:40	<i>P. Fritsch, O. Grémy, P. Bérard, L. Grappin, J.L. Poncy</i>	MADOR v1.0: A new tool to calculate decrease of effective doses in human after DTPA therapy
13:40 - 14:40	Lunch	
14:45	Conference photo	
15:00	New Acropolis Museum visit	

Thursday, 11 March 2010

Individual Monitoring in medical applications

Chairpersons: F. Vanhavere, E. Carinou

08:30 - 08:55	<i>F. Vanhavere, E. Carinou, G. Gualdrini, I. Clairand, M. Sans Merce and M. Ginjaume</i>	Invited lecture - The ORAMED project: optimization of radiation protection for medical staff
08:55 - 09:10	<i>R. Padovani, R. Czarwinski, A. Duran, C. Lefaure, J. Le Heron, D. Miller, M. Rehani, H.K. Sim, E. Vano</i>	International project on individual monitoring and exposure levels in interventional cardiology
09:10 - 09:25	<i>J. Domienik, M. Brodecki, E. Carinou, L. Donadille, J. Jankowski, C. Koukorava, S. Krim, D. Nikodemova, N. Ruiz-Lopez, M. Sans-Mercé, L. Struelens, F. Vanhavere</i>	Extremity and eye lens doses in interventional radiology procedures. First results of the ORAMED project
09:25 - 09:40	<i>M.F. Pereira, J.G. Alves, S. Sarmiento, J.A.M. Santos, M.J. Sousa, M. Gouvêa, A.D. Oliveira, J.V. Cardoso, L.M. Santos</i>	Preliminary assessment of the dose to the interventional radiologist in fluoro-CT guided procedures
09:40 - 09:55	<i>I. Clairand, J-M. Bordy, J. Daures, J. Debroas, M. Denozière, L. Donadille, M. Ginjaume, C. Itié, C. Koukorava, S. Krim, A-L. Lebacq, P. Martin, L. Struelens, M. Sans-Mercé, M. Tomic, F. Vanhavere</i>	Active personal dosimeters in interventional radiology: tests in laboratory conditions and in hospitals
09:55 - 10:10	<i>U. Ankerhold, O. Hupe, P. Ambrosi</i>	Deficiencies of active electronic radiation protection dosimeters in pulsed fields
10:10 - 10:25	<i>K. Fujii, S. Ko, Y. Nako, A. Tonari, K. Nishizawa, K. Akahane, M. Takayama</i>	Dose measurement for medical staff with glass dosimeters and thermoluminescence dosimeters during ¹²⁵ I brachytherapy for prostate cancer
10:25 - 11:10	Poster session Rapporteurs: F. Vanhavere, G. Gualdrini, E. Carinou, M. Ginjaume	
11:10 - 11:40	Coffee break	
11:40 - 11:55	<i>S. Baechler, N. Stritt, F.O. Bochud</i>	Routine individual monitoring of internal exposure for nuclear medicine workers in Switzerland
11:55 - 12:10	<i>N. Terranova, R. Testoni, G. Cicoria, D. Mostacci and M. Marengo</i>	Assessment of internal contamination hazard and fast monitoring for workers involved in maintenance operations on pet cyclotrons
12:10 - 12:25	<i>R. Behrens</i>	Monitoring the eye lens: which dose quantity is adequate?
12:25 - 12:40	<i>G. Gualdrini, F. Mariotti, S. Wach, P. Bilski, J-M. Bordy, P. Ferrari, F. Monteventi, E. Fantuzzi</i>	Eye lens dosimetry: subtask 2 within the ORAMED project

12:40 - 12:55	<i>D. Noßke</i>	Whole body and extremity doses in the medical work sector opposing trends in Germany
12:55 - 13:10	<i>L. Stadnyk, I. Yavon, I. Smirnova, E.Kurguzov</i>	Analysis of medical staff occupational dose records in the Ukrainian dose registry information system
13:10 -13:25	<i>O. Hupe, U. Ankerhold</i>	Determination of the dose to persons assisting when x-radiation is used in medicine, dentistry and veterinary medicine

13:25 - 14:25 Lunch

Dosimetry in emergency situation

Chairpersons: J-F. Bottollier, P. Olko

14:25 - 14:50	<i>G. Etherington, K. Rothkamm, A. Shutt, M. Youngman</i>	Invited lecture - Triage, monitoring and dose assessment for people exposed to ionising radiation following a malevolent act
14:50 - 15:05	<i>W. Rühm, A. Wallner, H. Cullings, S.D. Egbert, N. El-Faramawy, T. Faestermann, D. Kaul, K. Knie, G. Korschinek, N. Nakamura, J. Roberts, G. Rugel</i>	⁴¹ Ca in tooth enamel – a means to quantify individual neutron exposures
15:05 - 15:20	<i>E. Courageot, C. Huet, I. Clairand, J.-F. Bottollier-Depois</i>	Numerical dosimetric reconstruction of a radiological accident in south America on April 2009
15:20 - 15:35	<i>B. Obryk, P. Bilski, P. Olko</i>	Method of thermoluminescent measurement of radiation doses from micrograys up to a megagray with a single LiF:Mg,Cu,P detector
15:35 - 15:50	<i>J. Hunt, R. Cruz-Suarez, C. Schmitzer et al.</i>	Individual and workplace monitoring measurements made after a Pu-240 incident and during the clean-up operations
15:50 - 16:30	Poster Session Rapporteurs: J-F. Bottollier, G. Etherington, V. Kamenopoulou, M-A. Lopez	
16:30 - 17:00	Coffee break	

Education and training

Chairpersons: J. Kalef-Ezra, G. Gualdrini

17:00 - 17:25	<i>P.Dimitriou, V.Kamenopoulou</i>	Invited lecture - Education and training issues in individual monitoring of ionizing radiation
17:25 - 17:40	<i>R.Cruz Suarez, J. Hunt, R. Czarwinski</i>	IAEA Training Packages related to individual monitoring
17:40 - 18:00	<i>A. M. Rojo, I. Gómez Parada, N. Puerta, S. Gossio</i>	ARN training course on advance methods for internal dose assessment: application of IDEAS guidelines
18:00 - 18:15	<i>C.-M. Castellani, M. A. Lopez, A. Luciani, J. W. Marsh, T. Vrba, R. Cruz-Suarez</i>	Results of an internal dose assessment intercomparison exercise after a EURADOS/IAEA training course
20:30	Conference dinner - Best poster award announcement	

Friday, 12 March 2010

Workplace monitoring

Chairpersons: P. Ambrosi, A. McWhan

08:30 - 08:55	<i>H. Schuhmacher</i>	Invited lecture – Workplace monitoring of mixed neutron-photon radiation fields and its contribution to external dosimetry
08:55 - 09:10	<i>I. Jadrníčková, K. Brabcová, F. Spurný, V.A. Shurshakov, Yu. Akatov, I.S. Kartsev, R.V. Tolochek</i>	To monitoring onboard spacecraft by means of passive detectors
09:10 - 09:25	<i>O. Burda, S. Burmeister, B. Heber, F. Langner, D. F. Spurný, T. Datchev, O. Ploc</i>	Radiation monitoring onboard aircraft - first results of the RAMONA cooperation
09:25 - 09:40		Si-energy deposited spectrometer and its use for aircraft crew individual dosimetry
09:40 - 09:55	<i>J. Sabol, M. Jurda, Z. Gregor, L. Navrátil</i>	Assessment of the total effective dose of miners in the underground uranium Rožná mine in the Czech Republic during the period of 2002-first half of 2009
09:55 - 10:10	<i>W. Rühm, E. Gruber, F. Karinda, E. Salama, G. Köstinger, H. G. Paretzke</i>	Measurement of individual radon exposures with an active radon exposimeter
10:10 - 10:25	<i>R.K.Bull, G. Wilson</i>	Empirical evaluation of lung solubilities at Harwell facilities
10:25 - 11:30	Poster session Rapporteurs: P. Ambrosi, A. McWhan	
11:30 - 12:00	Coffee break	
12:00 - 12:15	<i>F. Saintamon, S. Dupic, A. Barre, G. Cordier</i>	The remote monitoring system dedicated to radiation protection in EDF
12:15 - 12:30	<i>D. Kontogeorgakos, F. Tzika, S. Valakis and I. E. Stamatelatos</i>	Occupational radiation exposure during removal of radioactive components from GRR-1 pool: a task within primary cooling system replacement project
12:30 - 12:45	<i>P. Covens, D. Berus, N. Buls</i>	Mapping ambient dose levels in a hospital environment: a useful tool for optimisation and risk communication?
12:45 - 13:00	<i>V. Chumak, V. Volosky, E. Bakhanova</i>	Determination of angular distributions of workplace photon fields in a context of effective dose estimation
13:00 - 13:15	<i>C. Villagrassa, J. Darréon, N. Martin-Burtat, I. Clairand, J. Colin and J.M. Fontbonne</i>	Effective dose measurement at workplaces within an instrumented anthropomorphic phantom
13:15 - 13:30	Closing	
13:30 - 14:30	Lunch	