



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

**Monday, 8 March 2010**

**08:00- 09:00** Registration and poster mounting

**New developments in international recommendations and requirements**

**09:00 - 09:25** Invited lecture – Implications of International Basic Safety Standards on individual monitoring, R. Czarwinski

**09:25 - 09:50** Invited lecture - Revision of the EURATOM Basic Safety Standards Directive-Current status, S. Mundigl

**09:50 - 10:15** Invited lecture - The new European Commission technical recommendations for monitoring individuals occupationally exposed to external radiation, V. Kamenopoulou

**10:15 - 10:40** Invited lecture - International standards for radiation protection, P. Ambrosi

**10:40 - 10:55** IEC standards for individual monitoring of ionizing radiation, M. Voytchev

**10:55 - 11:25** Coffee break

**Practical implementation of standards and regulations – Quality management systems**

**11:25 - 11:50** Invited lecture - Application of ISO standard 27048-Dose assessment for the monitoring of workers for internal radiation exposure, K. Henrichs

**11:50 - 12:05** Accreditation of testing laboratories in dosimetry: the use of a flexible scope at the competent incorporation measuring body Jülich, P. Hill

**12:05 - 12:20** Occupational dose assessment and national dose registry system in Iran, M. Jafarizadeh

**12:20 - 12:35** Lessons learnt during the ISO 17025 accreditation processes at the IAEA radiation protection and monitoring services, R. Cruz Suárez

**12:35 - 13:10** **Poster Session**

**13:10 - 14:10** Lunch

**14:10 - 14:35** Invited lecture - Developments in uncertainty analysis for individual monitoring, J. van Dijk

**14:35 - 14:50** Different versions of the right answer: the importance of measurement uncertainty in radiation dosimetry, P. Gilvin

**14:50 - 15:05** Calculation of uncertainties in a film and a TLD dosimetry services, Denison Souza-Santos

**15:05 - 15:20** Uncertainties in external dosimetry: analytical vs. Monte Carlo approach, R. Behrens

**15:20 - 15:35** Uncertainty assessment of a two element LiF:Mg,Ti TL personal dosimeter using Monte Carlo simulation techniques, H. Stadtmann

**15:35 - 16:10** **Poster Session**

**16:10 - 16:40** Coffee break

<b>16:40 - 16:55</b>	The national dose register in Finland, M. Lehtinen
<b>16:55 - 17:10</b>	Experience of introducing a new database for an approved coordination & record keeping service, N. J. Garratt
<b>17:10 - 17:25</b>	Electronic radiation passport fully integrated in dose register: first step towards a European radiation passport?, A. Fremout
<b>17:25 - 17:40</b>	50 years of individual monitoring of ionizing radiation in Switzerland: history, trends, perspectives, M. Moser
<b>17:40 - 17:55</b>	ORPAS - a tool for verification of compliance with the IAEA safety requirement in occupational radiation protection, R. Cruz Suárez
<b>17:55 - 18:10</b>	Current situation and future challenges on occupational radiation protection in Latin-America, Nestor Cornejo
<b>18:10 - 18:25</b>	Radiation protection for pregnant workers and their offspring. A recommended approach for monitoring – Denison Souza
<b>18:25 - 20:00</b>	Opening ceremony Welcome Cocktail

**Tuesday, 9 March 2010**

#### Developments in external dosimetry systems

<b>08:30 - 08:55</b>	Invited lecture - Performance and approval procedures for active personal dosimeters, M. Ginjume
<b>08:55 - 09:10</b>	Influence of variation of etching conditions on the sensitivity of CR-39 detectors with a new evaluation method, A. Fiechtner
<b>09:10 - 09:25</b>	Neutron response characterization of an aluminum oxide neutron detector, C.N. Passmore
<b>09:25 - 09:40</b>	The applicability of the PTTL dose re-analysis method to the Harshaw LiF:Mg,Cu,P material, M. Moscovitch
<b>09:40 - 09:55</b>	Uncertainties associated with the use of optically stimulated luminescence in personnel dosimetry, L. Benevides
<b>09:55 - 10:10</b>	Development of a new ionization chamber, for $H_p(10)$ measurement, using Monte Carlo simulation and experimental methods, J. Cardoso
<b>10:10 - 11:00</b>	<b>Poster session</b>
<b>11:00 - 11:30</b>	Coffee break
<b>11:30 - 11:45</b>	Conceptual design of a personal dosimeter with response uniform in terms of effective dose, V. Chumak
<b>11:45 - 12:00</b>	The use of active personal dosimeters as a personal monitoring device – comparison with TL dosimetry, C. Koukorava
<b>12:00 - 12:15</b>	Bubble detector for personnel neutron dosimetry, D. Ponraju
<b>12:15 - 12:30</b>	A Monte Carlo simulation of a 4 band neutron spectrometer utilising silicon based collection techniques, S. D. Monk
<b>12:30 - 12:45</b>	ENEA Extremity dosimeter based on LiF(Mg,Cu,P) to measure $H_p(3,\alpha)$ , F. Mariotti
<b>12:45 - 13:45</b>	Lunch

#### Intercomparison exercises

<b>13:50 - 14:15</b>	Invited lecture - EURADOS self sustained programme of intercomparisons for individual monitoring services, T.W.M. Grimbergen
<b>14:15 - 14:40</b>	Invited lecture - Intercomparison 2009, H. Stadtmann

14:40 - 14:55	Intercomparison on measurements of the quantity personal dose equivalent $H_p(10)$ in photon fields in the Africa region, Zakithi Msimang
14:55 - 15:10	Quality control system of measurements in the center of personal dosimetry in Ukraine: Lessons learnt from the intercomparisons. L. Stadnyk
15:10 - 15:35	Invited lecture - National and international interlaboratories comparisons organised in France: a tool for the validation of in-vitro and in vivo-methods, P. Bérard, D. Franck
15:35 - 15:50	IAEA region intercomparison of in vivo measurements of I-131 in the thyroid: the South American and Caribbean experience, B.M. Dantas
15:50 - 16:05	EURADOS intercomparison on measurements and Monte Carlo modeling for the assessment of americium in a USTUR leg phantom, M. A. Lopez
16:05 - 16:40	<b>IMS Poster Session</b>
16:40 - 17:10	Coffee break
17:15 - 19:15	<b>Satellite meeting: Intercomparisons</b>

### Wednesday, 10 March 2010

#### Developments in internal dosimetry systems

08:30 - 08:55	Invited lecture - New developments in internal dosimetry models, D. Noßke
08:55 - 09:10	Using radioactive people to calibrate/test emergency response equipment , G.H. Kramer
09:10 - 09:25	Theoretical assessment of whole body counting uncertainties using numerical phantoms of varying sizes and sexes, O. Marzocchi
09:25 - 09:40	Creation and use of adjustable 3D phantoms: application for the lung monitoring of nuclear workers, J. Farah
09:40 - 09:55	Variability of radioiodine measurements in the thyroid, S. Baechler
09:55 - 10:10	The extraction of thorium by calix[6]arene columns in the aim of urinary analysis, S. Mekki
10:10 - 10:25	Determination of $^{226}\text{Ra}$ in urine samples by LSC, I. Giardina
10:25 - 11:10	<b>Poster session</b>
11:10 - 11:40	Coffee break
11:40 - 11:55	EURADOS coordinated action on research, quality assurance and training of internal dose assessments, M.A. Lopez
11:55 - 12:10	Optimisation of internal monitoring programme by integration of uncertainties, E. Davesne
12:10 - 12:25	MAYAK plutonium worker lung dosimetry, A Birchall
12:25 - 12:40	Individual monitoring of internal exposure at the shelter object, I. Bonchuk
12:40 - 12:55	Comparison of epidemiologic and dosimetric approaches in characterisation of workplace protracted exposure to uranium, I. Guseva Canu
12:55 - 13:10	Modelling particle clearance in the alveolar-interstitial region of the lungs, D. Gregoratto
13:10 - 13:25	MADOR v1.0: A new tool to calculate decrease of effective doses in human after DTPA therapy, P. Fritsch
13:25 - 13:40	Deformable phantoms for external and internal dosimetry: a review of the latest development, X. G. Xu

13:40 - 14:40	Lunch
14:45	Conference photo
15:00	New Acropolis Museum visit

Thursday, 11 March 2010

### Individual Monitoring in medical applications

08:30 - 08:55	Invited lecture - The ORAMED project: optimization of radiation protection for medical staff, F. Vanhavere
08:55 - 09:10	International project on individual monitoring and exposure levels in interventional cardiology , R. Padovani
09:10 - 09:25	Extremity and eye lens doses in interventional radiology procedures. First results of the ORAMED project , J. Domienik
09:25 - 09:40	Preliminary assessment of the dose to the interventional radiologist in fluoro-CT guided procedures, M.F. Pereira
09:40 - 09:55	Active personal dosimeters in interventional radiology: tests in laboratory conditions and in hospitals - I. Clairand
09:55 - 10:10	Deficiencies of active electronic radiation protection dosimeters in pulsed fields, U. Ankerhold
10:10 - 10:25	Dose measurement for medical staff with glass dosimeters and thermoluminescence dosimeters during <sup>125</sup> I brachytherapy for prostate cancer, K. Fujii
10:25 - 11:10	<b>Poster session</b>
11:10 - 11:40	Coffee break
11:40 - 11:55	Routine individual monitoring of internal exposure for nuclear medicine workers in Switzerland, S. Baechler
11:55 - 12:10	Assessment of internal contamination hazard and fast monitoring for workers involved in maintenance operations on pet cyclotrons, N. Terranova
12:10 - 12:25	Monitoring the eye lens: which dose quantity is adequate? , R. Behrens
12:25 - 12:40	Eye lens dosimetry: subtask 2 within the ORAMED project, G. Gualdrini
12:40 - 12:55	Whole body and extremity doses in the medical work sector opposing trends in Germany, G. Frasch
12:55 - 13:10	Analysis of medical staff occupational dose records in the Ukrainian dose registry information system, L. Stadnyk
13:10 - 13:25	Determination of the dose to persons assisting when x-radiation is used in medicine, dentistry and veterinary medicine, O. Hupe
13:25 - 14:25	Lunch

### Dosimetry in emergency situation

14:25 - 14:50	Invited lecture - Triage, monitoring and dose assessment for people exposed to ionising radiation following a malevolent act, G. Etherington
14:50 - 15:05	<sup>41</sup> Ca in tooth enamel – a means to quantify individual neutron exposures, W. Rühm
15:05 - 15:20	Numerical dosimetric reconstruction of a radiological accident , E. Courageot
15:20 - 15:35	Method of thermoluminescent measurement of radiation doses from micrograys up to a megagray with a single LiF:Mg,Cu,P detector, B. Obryk
15:35 - 15:50	Individual and workplace monitoring measurements made after a Pu-240 incident and during the clean-up operations, J. Hunt

<b>15:50 - 16:30</b>	<b>Poster Session</b>
<b>16:30 - 17:00</b>	Coffee break
<b>Education and training</b>	
<b>17:00 - 17:15</b>	Invited lecture - Education and training issues in individual monitoring of ionizing radiation, P. Dimitriou
<b>17:15 - 17:30</b>	IAEA Training Packages related to individual monitoring , R.Cruz Suarez
<b>17:30 - 17:45</b>	ARN training course on advance methods for internal dose assessment: application of ideas guidelines, A.M. Rojo
<b>17:45 - 18:00</b>	Results of an internal dose assessment intercomparison exercise after a EURADOS/IAEA training course, C.-M. Castellani
<b>20:30</b>	Conference dinner - Best poster award announcement

## Friday, 12 March 2010

### Workplace monitoring

<b>08:30 - 08:55</b>	Invited lecture – Workplace monitoring of mixed neutron-photon radiation fields and its contribution to external dosimetry, H. Schuhmacher
<b>08:55 - 09:10</b>	To monitoring onboard spacecraft by means of passive detectors, I. Jadrníčková
<b>09:10 - 09:25</b>	Characterization of the HPA neutron personal dosimeter for use in the International Space Station, R. Tanner
<b>09:25 - 09:40</b>	Radiation monitoring onboard aircraft - first results of the RAMONA cooperation, O. Burda
<b>09:40 - 09:55</b>	Si-energy deposited spectrometer and its use for aircraft crew individual dosimetry, F. Spurny
<b>09:55 - 10:10</b>	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, J. Sabol
<b>10: 10 - 10:25</b>	Measurement of individual radon exposures with an active radon exposimeter, W. Rühm
<b>10:25 - 10:40</b>	Empirical evaluation of lung solubilities at Harwell facilities, R.K. Bull
<b>10:40 - 11:30</b>	<b>Poster session</b>
<b>11:30 - 12:00</b>	Coffee break
<b>12:00 - 12:15</b>	The remote monitoring system dedicated to radiation protection in EDF, F. Saintamon
<b>12:15 - 12:30</b>	Occupational radiation exposure during removal of radioactive components from GRR-1 pool: a task within primary cooling system replacement project , F. Tzika
<b>12:30 - 12:45</b>	Mapping ambient dose levels in a hospital environment: a useful tool for optimisation and risk communication?, P. Covens
<b>12:45 - 13:00</b>	Determination of angular distributions of workplace photon fields in a context of effective dose estimation, V. Chumak
<b>13:00 - 13:15</b>	Effective dose measurement at workplaces within an instrumented anthropomorphic phantom, C. Villagrasa
<b>13:15 - 13:30</b>	Closing
<b>13:30 - 14:30</b>	<b>Lunch</b>