ICRM 2013

Detailed Programme with updates

Sunday, 16 June 2013	
17:00 – 19:00	**Registration desk open at Elzenveld Congress Centrum**
18:00 – 21:00	**Welcome Reception at Elzenveld Congress Centrum (Kloosterzalen)**

Monday, 17 June 2013		
08:00 – 09:00	**Registration and set up of posters**	
09:00 – 09:20	**Opening session**	
	Session: Radionuclide Metrology in Life Sciences *Chairpersons: J. T. Cessna, M. Woods*	
09:20 – 09:40	**Development of a calibration methodology for large-volume, solid ^{68}Ge phantoms for traceable measurements in positron emission tomography** *B. E. Zimmerman[1], L. Pibida[1], L. E. King[1], D. E. Bergeron[1], J. T. Cessna[1], M. M. Mille[2]*	O-023
09:40 – 10:00	**Comparison of ^{90}Y and ^{177}Lu measurement capability in UK and European hospitals** *Andrew Fenwick, Michaela Baker, Kelley Ferreira, John Keightley*	O-028
10:00 – 10:10	**Poster Introduction of RMLS (5 posters)** *Coordinating referee of RMLS: J. T. Cessna*	
	Standardization of ^{18}F and its use for the Romanian PET metrological traceability chain assurance *M. Sahagia[1*], R. Ioan[1], A. Luca[1], A. Antohe[1], C. Ivan[1], B. Neacsu[1], C.Ghioca[2]*	P-005
	Standardization of ^{153}SM solution by absolute methods *T. Dziel, R. Broda, T. Ziemek, A. Muklanowicz, A. Listkowska*	P-048
	Comparison of ^{90}Y and ^{89}Sr activity measurements in Polish hospitals *Tomasz Dziel, Anna Listkowska, Zbigniew Tymiński*	P-094
	Collection and dissemination of Radionuclide ActivIty calibrator calibration factors *J.T. Cessna[1] and J. Keightley[2]*	P-140
	Calibration of ionization chamber IG11/A20 PTKMR-BATAN *Wijono Paidi, Pujadi Marsoem, Gatot Wurdiyanto and Hermawan Candra*	P-090
	Poster Introduction I of LL (8 posters) *Coordinating referee of LL: M. Hult*	
10:10 – 10:30	**Atmospheric input of ^{137}Cs and ^{239,240}Pu isotopes in Korea after the Fukushima nuclear power plant accident** *J. S. Oh, S.-H. Lee*, J. K. Choi, J. M. Lee, K. B. Lee, T. S. Park*	P-078
	Calibration of an air monitor prototype for a radiation surveillance network based on gamma spectrometry *A. Baeza, J.M. Caballero, J.Á. Corbacho, M.Á. Ontalba, J. Vasco*	P-087
	^{90}Sr analysis using TIMS at NIRS, Japan *N. Kavasi, S.K. Sahoo, T Ishikawa, S. Yoshida*	P-093
	Analysis of uranium in the insoluble residues after decomposition of soil samples by various techniques *S. Jurečič[1], L. Benedik[1], P. Planinšek[1], M. Nečemer[1], P. Kump[1], B. Pihlar[2]*	P-097
	Validation of aerosol low-level activities by comparison with a deep underground laboratory *Camacho A.[1], Laubenstein M.[2], Vargas A.[1], Serrano I.[1], Vallés I.[1], Plastino W.[3], Duch M.A.[1]*	P-117
	~~**Assessment of the biogenic concentration in a bio diesel by LSC**~~ **Cancelled** ~~*M. Herranz[‡], E. Perez[2], R. Idoeta[‡] and F. Legarda[‡]*~~	~~P-129~~
	Variations of gamma-ray background in the Belgrade shallow underground low-level laboratory *R. Banjanac, A. Dragić, V. Udovičić, D. Joković, D. Maletić, N. Veselinović, M. Savić*	P-142
	Natural radioactivity in lignite samples from open pit mines "Kolubara", Serbia – risk assessment *M. Đurašević[1], A. Kandić[1], P. Stefanović[1], I. Vukanac[1], B. Šešlak[1], Z. Milošević[1], T. Marković[2]*	P-145

10:30 – 11:00	**Coffee break and Posters**	
Session: Low-Level Measurement Techniques *Chairpersons: M. Hult, D. Arnold*		
11:00 – 11:20	**New Concepts for the calibration of commercial Radon and Thoron monitiors** *A. Röttger, A. Honig, D. Linzmaier*	O-012
11:20 – 11:40	**Improvements of low-level radioxenon detection sensitivity by state of the art coincidence setups** *A. Cagniant, G. Le Petit, G. Douysset, J.-P. Fontaine, C. Jutier and X. Blanchard*	O-064
11:40 – 11:50	**Poster Introduction II of LL (3 posters)** *Coordinating referee of LL: M. Hult*	
	Investigation of cosmic-ray muon induced processes by the MIREDO facility *K. Bikit, D. Mrdja, I. Bikit, M. Veskovic*	P-156
	~~**Detection in France of trace levels of ^{131}I and ^{125}I from Hungary**~~ **Cancelled** ~~*A. de Vismes Ott, O. Masson, X. Cagnat, R. Gurriaran*~~	~~P-157~~
	Determination of Pu isotopes in bilberry by liquid scintillation spectrometric method and alpha spectrometry *M. Seferinoğlu, N. Aslan, A. Kurt, P. E. Erden, H. Mert*	P-159
11:50 – 12:20	**Group Photographs**	
12:20 – 13:30	**Lunch**	
Session: Aspects of International Metrology *Chairpersons: G. Ratel, L. Karam*		
13:30 – 13:50	**100 years of radionuclide metrology** *S M Judge[1], R Collé[2], B Chauvenet[3], P De Felice[4], D Arnold[5], E Garcia-Torano[6], U Wätjen[7]*	O-100
13:50 – 14:10	**Experimental study of the influence of the counter and scintillator on the universal curves in the cross efficiency method in LSC** *P. Cassette and I. Tartès*	O-056
14:10 – 14:30	**Pilot study organized in view of using liquid-scintillation to extend the SIR to pure beta emitters** *G. Ratel[1], J.M. Los Arcos[2], L. Rodríguez[2], M. Capogni[3], M.L. Cozzella[3], T. Altzitzoglou[4], Ph. Cassette[5], L. Laureano-Pérez[6], B.R.S. Simpson[7], W.M. Van Wyngaardt[7], L. Johansson[8], K. Kossert[9], R. Broda[10]*	O-098
14:30 – 14:50	**"Realization of the Becquerel" – reducing the impact of equipment failure** *G. Suliman, J. Paepen, U. Wätjen*	O-137
14:50 – 15:20	**Tea break and Posters**	
15:20 – 16:10	**Low-Level Measurement Techniques working group meeting**	
Close of day 1		
16:30	**Buses leave from Theaterplein – Oude Vaartplaats**	
17:00 –19:00	**Boat tour of the sea port of Antwerp**	

Tuesday, 18 June 2013 Start at 08:30		
Session: Nuclear Decay Data *Chairpersons: M.-M. Bé, Y. Hino*		
08:30 – 08:50	**Precise test of internal-conversion theory: transitions measured in five nuclei spanning $50 \leq Z \leq 78$** *J.C. Hardy[1], N. Nica[1], V.E. Iacob[1], S. Miller[1], M. Maguire[1], M.B. Trzhaskovskaya[2]*	O-018
08:50 – 09:10	**Update of NIST halflife results corrected for ionization chamber source-holder instability** *M.P. Unterweger, R. Fitzgerald*	O-050
09:10 – 09:30	**^{148g,m}Pm: Evaluation of the decay schemes for two important reactor poisons** *M.A. Kellett, M.-M. Bé*	O-051
09:30 – 09:50	**Photon emission intensities in the decay of Ag-108m and Ag-110m** *L. Ferreux, M.-C. Lépy, M.-M. Bé, H. Isnard, V. Lourenco*	O-055
09:50 – 10:10	**Determination of the gamma emission intensities of ^{111}Ag** *S.M. Collins[1], J.D. Keightley[1], J.H.M. Gasparro[1], C.D.R. Gilligan[2], A.K. Pearce[1]*	O-080
10:10 – 10:30	**Half-life measurements of Lu-176 using underground HPGe detectors** *M. Hult[1], T. Vidmar[2], U. Rosengård[1], G. Marissens[1], G. Lutter[1], Namık Kemal Şahin[3]*	O-144
10:30 – 10:40	**Poster Introduction of ND (5 posters)** *Coordinating referee of ND: M.-M. Bé*	
	Measurement of the half-life of Ga-68 *Eduardo García-Toraño[1], Virginia Peyres[1], Eduardo Romero[2], Miguel Roteta[1]*	P-007
	Disintegration rate, gamma-ray emission probability and metastable half-life measurements of ^{67}Ga *Mauro S. Dias, Franco Brancaccio, Fábio de Toledo and Marina F. Koskinas*	P-020
	Determination of gamma-ray emission probability per decay of Ga-68 *Marina F. Koskinas*, Flavio W. Lacerda, Izabela T. Matos, Tatiane S. Nascimento,Ione M. Yamazaki, Mauro N. Takeda, Mauro S. Dias*	P-030
	Radioactive equilibrium: ^{99}Mo/^{99m}Tc decay characteristics *V.P. Chechev[1], M.-M. Bé[2]*	P-053
	A Self-consistent Evaluation of ^{242}Cm Alpha and Gamma Emission Intensities *S.A. Badikov[1], V.P. Chechev[2]*	P-121
10:40 – 11:10	**Coffee break and Posters**	
Special Session: Science-based advice to policy makers *Chairpersons: U. Wätjen, P. De Felice*		
11:10 – 11:40	**Opportunities for scientists to influence policy: When does radiation metrology matter in development of national policy?** *B.M. Coursey*	INV-A
11:40 – 12:10	**Requirements on radionuclide measurements in European legislation - interaction between science, metrology, policies and regulation** *A. Janssens*	INV-B
12:10 – 12:30	**Radionuclides as environmental tracers: emerging challenges in climate change research** *F. J. Maringer[1], M. Hult[2]*	O-151

12:30 – 12:35	**Poster Introduction of SBA (2 posters)** *Coordinating referee of SBA: U. Wätjen*	
	Reduce, reuse and recycle: A green solution to Canada's medical isotope shortage *R. Galea[1], C. Ross[1], G. Wells[2]*	P-010
	Long-term performances of the ^{95}Zr/^{95}Nb chronometer for nuclear events dating *G. Douysset, G. Le Petit, P. Gross, C. Jutier*	P-039
12:35 – 13:35	**Lunch**	
Session: Radionuclide Metrology Techniques *Chairpersons: J. Keightley, C. Bobin*		
13:35 – 13:55	**Measurement of a French national tritiated water standard by helium-3 mass spectrometry** *P. Jean-Baptiste [a], P. Cassette [b], E. Fourré [a], I. Tartès[b], A. Dapoigny [a]*	O-003
13:55 – 14:15	**Standardization of Sn-113** *Miguel Roteta, Virginia Peyres, Eduardo García-Toraño*	O-015
14:15 – 14:35	**A full digital approach to the TDCR method** *G. Mini[1], F. Pepe[1], C. Tintori[1], M. Capogni[2]*	O-126
14:35 – 15:10	**Poster Introduction of RMT (15 posters)** *Coordinating referee of RMT: J. Keightley, C. Bobin*	
	Standardization method of ^{22}Na using two NaI(Tl) scintillation detectors *Y. Sato[1], T. Yamada[1,2], T. Hasegawa[3]*	P-024
	Standardization and determination of total internal coefficient of In-111 *Izabela T. Matos, Marina F. Koskinas, Tatiane S. Nascimento, Ione M. Yamazaki, Mauro S. Dias*	P-031
	Digital pulse processing and optimization of the front-end electronics for nuclear instrumentation *C. Bobin, J. Bouchard, C. Thiam, Y. Menesguen*	P-052
	Direct activity measurement of ^{60}Co and ^{125}I by the sum-peak method in PTKMR – BATAN *Pujadi Marsoem, Gatot Wurdiyanto, Hermawan Candra and Holnisar Saibatulham*	P-059
	A simple method for determining the activity of large area beta sources constructed from anodized aluminum foils *Doru Stânga*	P-060
	An advanced method of activity determination of large area beta emitting sources *A. Javorník, A. Švec*	P-089
	Effects of beta-particles attenuation filter of reference sources and contribution in the calibration of surface contamination monitors *T.Yamada [a], M. Ohshiro [a] and Y.Kawada[b]*	P-105
	Primary activity standardization of ^{99}Tc by three different absolute methods *Paulo Alberto Lima da Cruz[1], Carlos José da Silva[1], Denise Simões Moreira[1], Akira Iwahara[1], Luiz Tauhata[2], Ricardo Tadeu Lopes[3]*	P-107
	Standardization of ^{64}Cu using software coincidence counting system *Miroslav Havelka, Jana Sochorová*	P-111
	Observation of X-ray and Auger electron spectra in a 4π proportional counter for 4π (e,X)-γ coincidence measurements *A.Yunoki, Y.Kawada and Y.Hino*	P-119

	Migration to new ampoule types for the NPL secondary standard ionisation chambers *M. Baker, A. Fenwick, K. Ferreira, J. Keightley, L. Johansson, S Collins*	P-128
	Gamma geometry dependency of efficiency functions in the 4πβ–γ coincidence measurements of complex decaying nuclides *Y.Kawada[1], A.Yunoki[1], T.Yamada[1,2], Y.Hino[1]*	P-132
	Activity standardization of ^{134}Cs and ^{137}Cs *Jana Sochorová, Pavel Auerbach*	P-139
	Calibration of ionization chamber for ^{18}F and ^{68}Ge/^{68}Ga *B.J. da Silva, E. M. de Oliveira, A. Iwahara, J. U. Delgado, R. Poledna, A. E. de Oliveira, R. dos Santos Gomes, E. Veras*	P-149
	Radioactivity measurement of Tc-99m: implementation of CIEMAT/NIST method at NIM, China *ZHANG Ming, LIANG Junchen, LIU Haoran, YANG Yuandi, CHEN Jing, ZHAO Qing*	P-166
15:10 – 15:40	**Tea break and Posters**	
Session: Source Preparation Techniques *Chairpersons: G. Sibbens, L. Benedik*		
15:40 – 16:00	**Multi-layer $^{235}UF_4$-^{6}LiF-Au targets for high-resolution fission fragment measurements** *G. Sibbens, A. Moens, D. Vanleeuw, R. Eykens, S. Oberstedt*	O-047
16:00 – 16:05	**Poster Introduction of SP (2 posters)** *Coordinating referee of SP: G. Sibbens*	
	Evaluation of three electrodeposition procedures for uranium, plutonium and americium *Jung-Suk Oh[1], Phil E. Warwick[2], Ian W. Croudace[2] and Sang-Han Lee[1]*	P-088
	Preparation of thick uranium layers on aluminium and stainless steel backings *L. Benedik[1], G. Sibbens[2], A. Moens[2], R. Eykens[2], M. Nečemer[1], S.D. Škapin[1], P. Kump[1]*	P-110
16:05 – 16:50	**Non-neutron Nuclear Data working group meeting**	
16:50 – 18:00	**Radionuclide Metrology Techniques working group meeting**	
Close of day 2		

Wednesday, 19 June 2013	**Start at 08:30**	
Session: Liquid Scintillation Counting Techniques – I *Chairpersons: K. Kossert, B. Zimmerman*		
08:30 – 08:50	**Extension of the TDCR model to compute counting efficiencies for radionuclides with complex decay schemes** *K. Kossert, Ph. Cassette, A. Grau Carles, G. Jörg, Ch. Lierse v. Gostomski, O. Nähle, Ch. Wolf*	O-001
08:50 – 09:10	**A portable TDCR system** *Ole Nähle[1], Qi Zhao[1], Carsten Wanke[1,2], Mathias Weierganz [1], Karsten Kossert[1]*	O-011
09:10 – 09:30	**Standardization of Tc-99 by three liquid scintillation counting methods** *W.M. van Wyngaardt, M.J. van Staden, J. Lubbe, B.R.S. Simpson*	O-033
09:30 – 09:50	**Construction and implementation of a fixed TDCR system at ENEA** *Marco Capogni[1], Andrei Antohe[2]*	O-042
09:50 – 10:10	**Liquid scintillator non-linearity measurements using the ZoMBieS method** *L J Bignell*	O-081
10:10 – 10:25	**Poster Introduction of LSC (6 posters)** *Coordinating referee of LSC: K. Kossert*	
	Activity determination of Th-229 by means of liquid scintillation counting *K. Kossert, O. Nähle, H. Janßen*	P-006
	Micelle size effect on Fe-55 liquid scintillation efficiency *Denis E. Bergeron and Lizbeth Laureano-Pérez*	P-009
	A miniature TDCR system dedicated to in-situ activity assay *L. Johansson[1], E. Bakhshandeiar[1], A. Pearce[1], S. Collins[1], P. Orlandini[2], J. Sephton[1]*	P-019
	Radon in water activity measurements by the new ENEA fixed TDCR system *Andrei Antohe[1], Marco Capogni[2], Francesco Cardellini[2]*	P-038
	Comparison between two liquid scintillation counting primary techniques for activity measurements of pure beta radionuclides at ENEA-INMRI *Marco Capogni[1], Maria Letizia Cozzella[1], Oana Alexandra Dumitru (Rusu)[2]*	P-041
	Activity standardization of ^{99m}Tc using liquid scintillation counting methods *K.B.Lee, Jong-Man Lee, Tae Soon Park, S. H. Lee, J. B. Han*	P-082
10:25 – 11:00	**Coffee break and Posters**	
Session: Liquid Scintillation Counting Techniques – II *Chairpersons: K. Kossert, B. Zimmerman*		
11:00– 11:20	**Standardization of ^{237}Np** *L. Laureano-Perez, R. Fitzgerald, R. Collé*	O-138
~~**11:20 – 11:40**~~	~~**The TDCR-CNET method in LSC**~~ **Cancelled** ~~*T. Shilnikova[1] and P. Cassette[2]*~~	~~O-158~~
11:40 – 12:30	**Liquid Scintillation Counting Techniques working group meeting**	
12:30 – 13:30	**Lunch**	

Session: Alpha-particle and Beta-particle Spectrometry *Chairpersons: S. Pommé, E. García-Toraño*		
13:30 – 13:50	**Alpha-particle emission probabilities of ^{236}U obtained by alpha-particle spectrometry** *M. Marouli[1], S. Pommé[1], V. Jobbágy[1], R. Van Ammel[1], J. Paepen[1], H. Stroh[1], L. Benedik[2]*	O-002
13:50 – 14:10	***ft* values measured to ± 0.1% for superallowed beta transitions: metrology at sub-second time scales** *J.C. Hardy, V.E. Iacob, H.I. Park, L. Chen, N. Nica, V. Horvat, R.E. Tribble and I.S. Towner*	O-017
14:10 – 14:30	**Beta spectrometry with metallic magnetic calorimeters** *M. Loidl, M. Rodrigues, C. Le-Bret, X. Mougeot*	O-057
14:30 – 14:50	**Development of a transfer standard for the measurement of low Rn-222 activity concentration in air** *Diana Linzmaier, Annette Röttger*	O-091
14:50 – 15:10	**Preliminary beta spectrum measurements using a magnetic spectrometer** *Frédéric Juget, Claude Bailat, François Bochud*	O-130
15:10 – 15:20	**Poster Introduction of ABS (4 posters)** *Coordinating referee of ABS: S. Pommé*	
	High-resolution alpha-particle spectrometry of ^{238}U *S. Pommé[1], E. García-Toraño[2], M. Marouli[1], M. T. Crespo[2], V. Jobbágy[1], R. Van Ammel[1], J. Paepen[1], H. Stroh[1]*	P-008
	A magnet system for the suppression of conversion electrons in alpha-particle spectrometry *J. Paepen[1], A. Dirican[2], M. Marouli[1], S. Pommé[1], R. Van Ammel[1], H. Stroh[1]*	P-014
	Use of a Si(Li) detector as beta spectrometer *P. Dryák, P. Kovář*	P-035
	Improvements to alpha-particle spectrometry techniques *B. Caro Marroyo, A. Martín Sánchez and M. Jurado Vargas*	P-065
15:20 – 15:50	**Tea break and Posters**	
15:50 – 16:10	**Alpha- and Beta-particle Spectrometry working group meeting**	
16:10 – 17:00	**Radionuclide Metrology in Life Sciences working group meeting**	
Close of day 3		
18:20	**Buses leave from Theaterplein – Oude Vaartplaats**	
19:00 – 23:00	**Conference Dinner at Hof van Nazareth, Lier**	

Thursday, 20 June 2013 Start at 09:00		
Session: Gamma-ray Spectrometry – I *Chairpersons: O. Sima, M.-C. Lépy*		
09:00 – 09:20	**Determination of dead-layer variation in HPGe detectors** *E. Andreotti[1], M. Hult[1], G. Marissens[1], G. Lutter[1], A. Garfagnini[2,3], S. Hemmer[2,3], K. von Sturm[2,3]*	O-021
09:20 – 09:40	**Equivalence of computer codes for calculation of coincidence summing correction factors** *T. Vidmar [1], M. Capogni [3], M. Hult [4], S. Hurtado [5], J. Kastlander [7], G. Lutter [4], M-C. Lépy [6], J. Martinkovič [2], H. Ramebäck [7], O. Sima [8], F. Tzika [4], G. Vidmar [9]*	O-037
09:40 – 10:10	**Poster Introduction I of GS (13 posters)** *Coordinating referee of GS: O. Sima and M.-C. Lépy*	
	Optimization of a measurement facility for radioactive waste free release by Monte Carlo simulation *Jaroslav Solc[1], Petr Kovar[1], Jiri Suran[1], Virginia Peyres[2], Eduardo García-Toraño[2]*	P-029
	Measurement and calibration of metal and non-metal wastes produced from decommissioning *Chin-Hsien Yeh , Ming-Chen Yuan*	P-032
	Efficiency calibration of BEGe and extended range detectors *M. Bruggeman, T. Vidmar, F. Amouriq, L. Verheyen*	P-034
	Installation and performance testing of an XtRa – NaI(Tl) Compton suppression system at the NED-NTUA *Savva M.I., Karfopoulos K.L., Karangelos D.J., Anagnostakis M.J., Simopoulos S.E.*	P-036
	Distribution of the ^{222}Rn decay products from a ^{226}Ra solution in a PTB ampoule – implications for calibration *Oliver Ott[1], Octavian Sima[2], Qi Zhao[1]*	P-044
	Determination of shielding factors for gamma-ray spectrometers *M. Korun, B. Vodenik, B. Zorko*	P-049
	Gamma summing peak correction of volume samples using the PENELOPE/ penEasy Monte Carlo code *A. Vargas, A. Camp, I. Serrano and M.A. Duch*	P-075
	Gamma-ray spectrometry method used for radioactive waste drums characterisation for final disposal *L. Done[a], L. C. Tugulan[a], F. Dragolici[a], C. Alexandru[a]*	P-083
	Improved method for the assessment of Co-60 and Cs-134 point sources in samples with inhomogeneous matrix *R. Suvaila[1], O. Sima[2], I. Osvath[3]*	P-086
	Monte Carlo estimation of the self-absorption correction accuracy with the Cutshall transmission method in determinations of ^{210}Pb by gamma-spectrometry *Paweł Jodłowski, Przemysław Wachniew, Nguyen Dinh Chau*	P-143
	Summing-coincidence corrections with GEANT4 in routine measurements by gamma spectrometry of environmental samples *B. Quintana[1], C. Montes[2]*	P-147
	Test of the GEANT4 simulation of detection efficiency by ^{241}Am source *K. Bikit, D. Mrdja, J. Slivka, S. Forkapic, I. Bikit*	P-155
	Correction factors in direct gamma spectrometric measurement of some radionuclides in lake and stream sediment samples *H. Yücel, E. Uyar, A.Ö. Yüksel, R. Kurt*	P-161

10:10 – 10:40	**Coffee break and Posters**	
Session: Gamma-ray Spectrometry – II *Chairpersons: M. Korun, F.J. Maringer*		
10:40 – 11:00	**Standardization of Xe-127 and measurement of photon emission intensities** *M. Rodrigues, M.-C. Lépy, P. Cassette, X. Mougeot, M.-M. Bé*	O-071
11:00 – 11:10	**Poster Introduction II of GS (4 posters)** *Chairpersons: M. Korun, F.J. Maringer*	
	Comparison of properties of digital spectrometer systems *M. Mazanova, P. Dryak, P. Kovar, P. Auerbach*	P-045
	Response of Ge photon detectors to beta-rays and possible reduction of photon peak areas due to beta-gamma coincidence summing effects *H.Ishizu[1], T.Yamada[1], Y.Kawada[2]*	P-058
	Comparison of digital signal processing modules in gamma-ray spectrometry *M.-C. Lépy[1], O.I. Cissé[2], S. Pierre[1]*	P-070
	Doublet peak area determination in NaI(Tl) scintillation spectrometry using maximum likelihood estimation *T.Yamada[1], N. Takano[2]*	P-106
Poster Introduction of Session Intercomparisons (3 posters) *Coordinating referee of I: G. Ratel*		
11:10 – 11:20	**Standardization of Tc-99 by two methods and participation at the CCRI(II)-K2.Tc-99 comparison** *M. Sahagia[*], A. Antohe, R. Ioan, A. Luca, C. Ivan*	P-004
	National comparison of the activity measurements of ^{131}I, ^{60}Co and ^{133}Ba in Indonesia *Gatot Wurdiyanto[1], Pujadi Marsoem[1], Susilo Widodo[1], Dadong Iskandar[1], Muhayatun[2], Unggul Hartoyo[3], Sugino[4], I Gede Sutresna[5], Tommy Hutabarat[6], Ibon Suparman[7], Setyo Purwanto[8]*	P-061
	Slovenian – Romanian bilateral intercomparison on tritium samples *Denis Glavič-Cindro[1], Jasmina Kožar Logar[1], Carmen Varlam[2], Denisa Faurescu[2], Irina Vagner[2]*	P-135
11:20 – 12:10	**Gamma-ray Spectrometry working group meeting**	
12:10 – 13:20	**Lunch**	
Session: Quality Assurance and Uncertainty Evaluation *Chairpersons: M. Woods, L. Karam*		
13:20 – 13:40	**A dedicated LIMS for routine gamma-ray spectrometry** *M. Bruggeman, L. Verheyen, T. Vidmar*	O-026
13:40 – 14:00	**Critical remarks on gross alpha/beta activity analysis: conclusions from an EC interlaboratory comparison** *V. Jobbágy, J. Merešová, U. Wätjen*	O-125
14:00 – 14:15	**Poster Introduction of QA (6 posters)** *Coordinating referee of QA: M. Woods*	
	Uncertainty budget in tritium measurements for the LSC method *Funda BARLAS ŞİMŞEK*	P-067

	Nationwide radioactivity intercomparisons on gamma-ray spectrometry organized by the NIRP, China *Fei Tuo, Cuihua Xu, Qing Zhang, Jing Zhang, Qiang Zhou, Wenhong Li, Jianfeng Zhang, Xu Su*	P-068
	A long-term performance evaluation of the gamma-ray activity measurement laboratory in CPST, Lithuania *A. Gudelis, I. Gorina, P. Butkus, T. Nedveckaitė*	P-104
	Results of an EC laboratory comparison on ^{40}K, ^{90}Sr and ^{137}Cs in dried bilberry powder *J. Merešová, U. Wätjen*	P-112
	Radon leakage as a source of additional uncertainty in simultaneous determination of Ra-226 and Ra-228 by gamma spectrometry – validation of analysis procedure *S. Suursoo, M. Kiisk, A. Semakalu, K. Isakar*	P-141
	Uncertainty evaluation in radon concentration measurement using charcoal canister *G. Pantelić[1], M. Eremić Savković[2], M. Živanović[1], J. Nikolić[1], M. Rajačić[1], D. Todorović[1]*	P-153
Poster Introduction of MSRM (2 posters) *Coordinating referee of MSRM: L. Karam*		
14:15 – 14:20	**Development, design and validation of solid reference samples** *Claude Bailat, François Bochud, Frédéric Juget, Thierry Buchillier*	P-072
	Characterization of brown rice as a certified reference material for Fukushima-accident radioactivity measurements *Y. Unno[1,2], M. Hachinohe[3], S. Hamamatsu[3], S. Todoriki[3], A. Yunoki[1], T. Miura[1]*	P-079
14:20 – 14:50	**Tea break**	
Session: Measurement Standards and Reference Materials *Chairpersons: L. Karam, U. Wätjen*		
14:50 – 15:10	**Preparation of spiked grass for use as an environmental radioactivity reference material** *V. Lourenço, L. Ferreux, D. Lacour, I. Le Garrérès and S. Morelli*	O-054
15:10 – 15:30	**Measurement of ^{226}Ra in soil from oil field: advantages of γ-ray spectrometry and application to IAEA-448 CRM** *A. Ceccatelli, R. Katona, G. Kis-Benedek, A. Pitois*	O-085
15:30 – 15:50	**Certified reference material IAEA-446 for radionuclides in Baltic Sea seaweed** *Mai Khanh Pham et al.*	O-163
15:50 – 16:10	**Certification of the reference material IRMM-426 for radionuclides in dried bilberries** *U. Wätjen[1], Y. Spasova[1], M. Vasile[1], Z. Szántó[1], H. Emteborg[1], O. Voitsekhovych[2]*	O-123
16:10 – 16:30	**Best Poster Award**	
16:30	**Close of the Conference**	
	Take down posters	
Close of day 4 and of the Conference		
	ICRM Executive Board Meeting – I	

Friday, 21 June 2013 Start at 08:30	
08:30	Buses leave from Theaterplein – Oude Vaartplaats
08:30 – 13:00 09:00 – 13:00	Laboratory visit IRMM or ICRM General Meeting
13:00 – 14:30	General Meeting Lunch / Lunch at IRMM
14:30 15:00 – 17:00	Return from IRMM to Antwerp or Airport Brussels ICRM Executive Board meeting – II