



DETAILED PROGRAMME

Sunday, 7th June 2015

18:00 - 21:00	<p>Get-together 'Wiener-Würstel-Jause' conference venue TU Wien (Prechtsaal)</p>	17:00 - 20:00	<p>Registration desk open conference venue TU Wien Karlsplatz 13, 1040 Wien</p>

Monday, 8th June 2015

08:00	Registration desk open and set up of posters
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9:30	Conference opening ceremony
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Session: Benefits of radionuclide metrology to global development <i>Chairpersons: D. Arnold, F.J. Maringer</i>	
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10:00	Obituary to Seppo Klemola <i>Roy Pöllänen</i>	
10:10	Benefits of 40 years International Committee for Radionuclide Metrology <i>D. Arnold</i>	O-217
10:30	Measuring, Estimating, and Deciding under Uncertainty (invited lecture) <i>R. Michel</i>	O-215
11:10	CCRI(II): Impact on radionuclide metrology (invited lecture) <i>L. Karam, G. Ratel</i>	O-216
11:50	Natural radionuclides metrology – from science to practise <i>F.J. Maringer</i>	O-212

12:10	Conference photograph at the stairs of the Karlskirche
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12:30	Lunch and company exhibition Prechtlsaal
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Session: Aspects of international metrology & Intercomparisons <i>Chairpersons: G. Ratel, L. Karam</i>	
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13:50	Radioxenon Standards used in laboratory inter-comparisons <i>H. Gohla, M. Auer, Ph. Cassette, R. K. Hague, M. Lechermann, B. Nadalut</i>	O-117
14:10	Comparison of ¹⁸F activity measurements at VNIIM, NPL and ENEA using the SIRTI of the BIPM <i>A. C. Michotte, I.V. Alekseev, I.A. Kharitonov, E.E. Tereshchenko, A.V. Zanevskiy, J. Keightley, A. Fenwick, K. Ferreira, L. Johansson, M. Capogni, P. De Felice</i>	O-045
14:30	Comparison of C-14 liquid scintillation counting at NIST and NRC Canada <i>Denis E. Bergeron, Raphael Galea, Lizbeth Laureano-Pérez, and Brian E. Zimmerman</i>	O-125
14:50	Evaluation of the 2014 EC measurement comparison on ¹³⁷Cs in air filters <i>B. Máté, K. Sobiech-Matura, T. Altitzoglou</i>	O-130
15:10	Poster introduction: AIM & I <i>G. Ratel</i>	
	Radioactive Standard Laboratory ININ as a reference laboratory in Mexico <i>O. García Díaz, L. Martínez Ayala, L. Herrera Valadez., V. Tovar M</i>	P-206

Monday, 8th June 2015

Session: Quality assurance and uncertainty evaluation (I)		
<i>Chairpersons: M. Woods, M. Korun</i>		
15:20	Poster introduction: QA <i>M. Woods, M. Korun</i>	
	Calibration and efficiency curve of SANAEM chamber for activity measurements <i>Emin Yeltepe, Karsten Kossert, Abdullah Dirican, Ole Nähle, Christiane Niedergesäß, Namik Kemal Sahin</i>	P-020
	Comparison for low-level activity samples measurement in Taiwan <i>Wei-Ham Chu, Chin-HsienYeh, Ming-Chen Yuan</i>	P-060
	Participation in IAEA-TEL-201304/28 ALMERA proficiency test exercise on determination of anthropogenic radionuclides in water and flour samples <i>S. Visetpotanakit, S. Kaewpaluek and S. Udomsomporn</i>	P-063
	Proficiency test exercise for CTBT radionuclide laboratories <i>E. B. Duran, K. Khrustalev, N. Nakashima, M. Auer</i>	P-079
	New method to incorporate type B uncertainty into least-squares procedures in radionuclide metrology <i>J. B. Han, K.B. Lee, Jong-Man Lee, S. H. Lee, Tae Soon Park, J. S. Oh</i>	P-088
	The evaluation of uncertainty due to self-absorption in a α/β low level counter <i>B. Wellens</i>	P-131
	Comparisons organized by Ionizing Radiation Metrology Laboratory of CPST, Lithuania <i>Arunas Gudelis, Inga Gorina</i>	P-146
	IAEA's ALMERA network: supporting the quality of environmental radioactivity measurements <i>I.Osvath, S.Tarjan, A.Pitois, M.Groening, D.Osborn</i>	P-170

15:30	Coffee break and posters	
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Session: Quality assurance and uncertainty evaluation (II)		
<i>Chairpersons: M. Woods, M. Korun</i>		
16:10	A review of the nationwide proficiency test on radioactivity measurements by gamma spectrometry <i>N. K. Şahin, E. Yeltepe, Ü. Yücel</i>	O-033
16:30	Evaluation of intercomparison results of gamma ray spectrometry at Jožef Stefan Institute from 1986 to 2014 <i>Denis Glavič-Cindro, Matjaž Korun, Marijan Nečemer, Branko Vodenik, Benjamin Zorko</i>	O-057
16:50	Use of reference materials for assessment of measurement result uncertainty in determination of ²¹⁰ Pb <i>A. R. Iurian, , A. Pitois, G. Kis-Benedek, A. Migliori, R. Padilla-Alvarez and A. Ceccatelli</i>	O-150

Monday, 8th June 2015

Session: Measurement standards and reference materials		
Chairpersons: L. Karam, A.V. Harms		
17:20	Standardisation and half-life determination of ⁹³Zr <i>Richard Brown, Seán Collins, Peter Ivanov, John Keightley, Simon Jerome, Cyrus Larijani, Andy Pearce and Ben Russell</i>	O-101
17:40	Distribution of radionuclides in an iron calibration standard for a free release measurement facility <i>M.Hult, H.Stroh, G Marissens, F. Tzika, G. Lutter, J. Suran, P.Kovar, D. Arnold, J. Sud</i>	O-182
18:00	Reference materials produced for European metrology research project IND57 <i>Teresa Crespo-Vazquez, Pierino de Felice, Mikael Hult, Simon Jerome, Cyrus Larijani, Franz-Josef Maringer, Monika Mazánová and Virginia Peyres-Medina</i>	O-198
18:20	Poster introduction: MSRM <i>L. Karam, A.V. Harms</i>	
	Certified Reference Material IAEA-412 for radionuclides in Pacific Ocean sediment <i>M.K. Pham, P.v. Beek, F.P. Carvalho, E. Chamizo, D. Degering, C. Engeler, C. Gascó, R. Gurriaran, O. Hanley, J. Herrman, M. Hult, C. Ilchmann, G. Kanisch, M. Kloster, M. Laubenstein, M. Llaurado, J.L. Mas, Y.Ikeuchi, M. Nakano, S.P. Nielsen, I. Osvath, P.P. Povinec, U. Rieth, J. Schikowski, P.A. Smedley, M. Suplinska, S. Tarjan, B. Varga, E. Vasileva, T. Zalewska, W. Zhou</i>	P-026
	Reference drums used in calibration of 4π counting geometry plastic scintillation counter <i>Chin-HsienYeh, Ming-Chen Yuan, Wei-Han Chu</i>	P-066
	Development of reference material(rm) using oyster for determination of artificial radionuclides (plutonium isotopes, Sr-90 and Cs-137) <i>S. H. Lee, J. S. Oh, J. M. Lee, K.B.Lee, T. S. Park, J. K. Choi, S. H. Kim</i>	P-075
	Metrological tests of a 200l calibration source for HPGE detector systems for assay of radioactive waste drums <i>T. Boshkova, K. Mitev</i>	P-123
	Characterisation of the IAEA-375 soil reference material for radioactivity <i>T. Altitzoglou, M. Bickel, A. Bohnstedt, J.-G Decaillon, C. Hill and G. Sibbens</i>	P-145
	Development of gaseous CRM from the primary standard for activity measurement of Radon-222 gases <i>B.J. Kim, B.C. Kim, K.B. Lee, J.M. Lee, T.S. Park</i>	P-151
	Spiked environmental matrix for use as a reference material for gamma-ray spectrometry <i>K. Sobiech-Matura, B. Máté, T. Altitzoglou</i>	P-171
18:30	Close of conference day 1	
20:00 - 22:00	Reception by the Mayor and Governor of Vienna Rathaus (city hall), Wappensaal Lichtenfelsgasse 2, Feststiege 2, 1010 Wien	

Tuesday, 9th June 2015

08:00	Registration desk open and set up of posters
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Session: Nuclear Decay Data		
<i>Chairpersons: Y. Hino, M. Kellett</i>		
09:00	Evaluation of two emerging radio-pharmaceutic nuclei: ¹⁷⁷ Lu and ¹⁸⁶ Re <i>M.A. Kellett</i>	O-136
09:20	Measurement of atomic parameters of bismuth using synchrotron radiation <i>Yves Ménesguen, Bruno Boyer, Matias Rodrigues, Marie-Christine Lépy</i>	O-139
09:40	Poster introduction: ND <i>Y. Hino, M. Kellett</i>	
	Decay data evaluation project (DDEP): updated decay data evaluations for ²⁴ Na, ⁴⁶ Sc, ⁵¹ Cr, ⁵⁴ Mn, ⁵⁷ Co, ⁵⁹ Fe, ⁸⁸ Y, ¹⁹⁸ Au. <i>V.P. Chechev, N.K. Kuzmenko</i>	P-022
	Experimental determination of some nuclear decay data in the decays of ¹⁷⁷ Lu, ¹⁸⁶ Re and ¹²⁴ I <i>A. Luca, M. Sahagia, M.-R. Ioan, A. Antohe, B.L. Neacsu</i>	P-039
	Half-life measurement of Cd-109 <i>Andrew Fenwick, Michaela Baker, Kelley Ferreira</i>	P-046
	An investigation of the possible effect of antineutrinos on the decay rate of Na-22 <i>M.W. van Rooy, R.J. de Meijer, F.D. Smit and P. Papka</i>	P-127
	Determination of photon emission intensities in the decay of I-131 <i>Marie-Christine Lépy, Laurine Brondeau, Christophe Bobin, Valérie Lourenço, Cheick Thiam, Marie-Martine Bé</i>	P-137
	Activity standardization, photon emission probabilities and half-life measurements of ¹⁷⁷ Lu <i>Pavel Dryák, Jana Sochorová, Jaroslav Šolc, Pavel Auerbach</i>	P-178
	New evaluation of alpha and gamma emission intensities in the ²⁴⁴ Cm decay <i>S.A. Badikov*, V.P. Chechev</i>	P-188
	Nuclear decay data evaluation of ⁵² Fe <i>Aurelian Luca</i>	P-194

Session: Alpha- and beta-particle spectrometry		
<i>Chairpersons: S. Pommé, X. Mougeot</i>		
09:50	Experiments and theory of lanthanum-138 radioactive decays <i>F.G.A. Quarati, P. Dorenbos, X. Mougeot</i>	O-115
10:10	Relevance of usual approximations in beta calculations: systematic comparison with experimental shape factors <i>X. Mougeot</i>	O-133
10:30	Conversion electron spectrometry of Pu isotopes with a silicon drift detector <i>S. Pommé, J. Paepen, K. Peräjärvi, J. Turunen</i>	O-175

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10:50	Poster introduction: ABS <i>S. Pommé, X. Mougeot</i>	
	Comparison of acid digestion and fusion techniques to determine uranium in soil samples by alpha spectrometry <i>A. Dirican, M. Şahin</i>	P-018
	Performance of an in-situ alpha spectrometer <i>R. Pöllänen</i>	P-030
	Defined solid angle alpha counting at NPL <i>A. Arinc, M.J. Parfitt and J.D. Keightley</i>	P-072
	A new thoron reference atmosphere measurement system <i>B.Sabot, S.Pierre, P. Cassette, N. Michielsen, S.Bondiguel</i>	P-141
	Application of PERALS [®] spectrometry for the rapid measurement of alpha emitters <i>D. Zapata-Garcia; C. Larijani; H. Wershofen; S.M. Jerome</i>	P-157
	Evaluation of procedures for Ra-226 determination in samples with high barium concentration by alpha-particle spectrometry <i>L. Benedik</i>	P-169
11:00	Coffee break and posters	
Session: Source preparation techniques <i>Chairpersons: T. Crespo, S. Jerome</i>		
11:45	Long-term stability of carrier-added Ge-68 standardized solutions <i>B. E. Zimmerman, D. E. Bergeron, R. Fitzgerald, and J. T. Cessna</i>	O-032
12:05	Preparation of graphene thin films for radionuclide samples <i>Miguel Roteta, Isabel Rucandio, Marcos Mejuto, Rodolfo Fernández-Martínez</i>	O-152
12:25	Poster introduction: <i>T. Crespo</i>	
	Preparation of ²²⁸ Ra standard solution <i>Miroslav Havelka</i>	P-154
12:30	WG meeting: Alpha-particle spectrometry	
12:50	Company exhibition introduction	
13:00	Lunch and company exhibition (Prechtlsaal)	
14:15	WG meeting: Beta-particle spectrometry	

Tuesday, 9th June 2015

Session: Radionuclide metrology in life sciences <i>Chairpersons: J. T. Cessna, B. Zimmerman</i>		
15:05	Standardisation of ⁹⁰Y and determination of calibration factors for ⁹⁰Y Microspheres (resin) for the NPL secondary ionisation chamber and Capintec CRC-25R <i>K. Ferreira, A. Fenwick, A. Arinc and L. Johansson</i>	O-098
15:25	Investigation of the response variability of ionization chambers for the standard transfer of SIR-Spheres <i>C. Thiam, C. Bobin, V. Lourenço, D. Lacour, M.N. Amiot, V. Chisté, F. Rigoulay, X. Mougeot, L. Ferreux</i>	O-142
15:45	Traceability from governmental producers of radiopharmaceuticals in measuring ¹⁸F in Brazil <i>A. E. Oliveira, A. Iwahara, C. J Silva, P. A. L Cruz, R Poledna, R. L Silva, A. S. Laranjeira, J. U. Delgado, L. Tauhata, J. S Loureiro, B C Toledo, A. M. S. Braghirolli, E. A. L. Andrade, J. L. Silva, H. O. K. Hernandez, E. S. Valente, H. M. Dalle, V. M. Almeida, T. G. Silva, M. C. F. Fragoso, M. L. Oliveira, E. S. S. Nascimento, E. M. Oliveira, R. Herrerias, A. A. Souza, E. Bambalas, W. A. Bruzinga</i>	O-174
16:05	Poster introduction: RMLS <i>J. T. Cessna, B. Zimmerman</i>	
	Radionuclidic purity tests in ¹⁸F radiopharmaceuticals production process <i>Tomasz Dziel, Zbigniew Tymiński, Katarzyna Sobczyk, Agata Wałęcka-Mazur, Przemysław Kozanecki</i>	P-008
	Comparison of ⁹⁰Y activity measurements in nuclear medicine in Germany <i>K. Kossert, K. Bokeloh, M. Ehlers, O. Nähle, O. Scheibe, U. Schwarz, K. Thieme</i>	P-016
	(Mis)use of ¹³³Ba as a calibration surrogate for ¹³¹I in clinical activity calibrators <i>B. E. Zimmerman and D. E. Bergeron</i>	P-035
	Recalibration national secondary standard ionization chamber by primary standard in Indonesia <i>Gatot Wurdianto, Pujadi, and Hermawan Candra</i>	P-056
	Renewing the radiopharmaceutical accuracy check service for Canadian dose calibrators <i>R.Galea and K. Gameil</i>	P-118
	Dose calibrator simulation and bremsstrahlung measurement <i>Frédéric Juget, Jean-Pascal Leadermann, François Bochud, Youcef Nedjadi and Claude Bailat</i>	P-122
	Practical correction methods for impurities on activity measurements using isotope calibrators <i>H.Ishizu, T.Yamada</i>	P-184
	Determination of impurities in ¹²⁴I samples by high resolution gamma spectrometry <i>R L da Silva, M C M de Almeida, J U Delgado, R Poledna, M T F de Araújo, A S Laranjeira, E de Veras, A M S Braghirolli, G R dos Santos, R S Gomes</i>	P-200

Tuesday, 9th June 2015

16:15	Coffee break and posters
17:00	WG meeting: Life Sciences
17:45	Close of conference day 2
19:00 - 20:00	Vienna waltz dancing exercise TU Wien, conference room (Kuppelsaal)

Wednesday, 10th June 2015

Session: Liquid scintillation counting techniques		
<i>Chairpersons: K. Kossert, P. Cassette</i>		
08:30	Micellar phase boundaries under the influence of ethyl alcohol <i>Denis E. Bergeron</i>	O-002
08:50	Measurement of terbium-161 by liquid scintillation counting <i>Jun Jiang</i>	O-042
09:10	Determination of ²²²Rn absorption properties of polymer foils by TDCR counting. Application to ²²²Rn measurements <i>K. Mitev, P. Cassette, S. Georgiev, I. Dimitrova, B. Sabot, T. Boshkova, I. Tartès, D. Pressyanov</i>	O-103
09:30	NUR: Calculation of the detection efficiency of a complex decay-scheme nuclide in liquid scintillators <i>Eduardo García-Toraño</i>	O-120
09:50	Activity of Fe-59 by 4π beta-gamma liquid scintillation coincidence counting <i>M.W. van Rooy, M.J. van Staden, J. Lubbe, B.R.S. Simpson</i>	O-159
10:10	Measurements of ¹²⁹I by liquid scintillation <i>L. Laureano-Perez, R. Fitzgerald, D. Bergeron and R. Collé</i>	O-199
10:30	Poster introduction: <i>K. Kossert, F. van Wyngaardt</i>	
Standardisation of ¹²⁹I, ¹⁴¹Sm and ^{166m}Ho activity concentration in a solution using the CIEMAT/NIST efficiency tracing method <i>A. Rožkov, T. Altitzoglou</i>		
P-017		
Standard sources for the measurement of ²¹⁰Pb – ²¹⁰Po chain activity <i>A. Antohe, M. Sahagia, A. Luca, M.-R. Ioan, C. Ivan</i>		
P-036		
Fabrication of printed optical filters for TDCR measurement <i>Y. Sato</i>		
P-089		
A new 4π(LS)-γ coincidence counter at NCBJ RC Polatom with TDCR detector in the beta channel <i>T. Ziemek, A. Jęczmieniowski, D. Cacko, R. Broda, E. Lech</i>		
P-113		
²¹⁰Bi – from interference to advantage in ²¹⁰Pb determination with liquid scintillation counter <i>M. Štrok et al.</i>		
P-119		
Quench; a software package for the determination of quenching curves in liquid scintillation counting <i>Philippe Cassette</i>		
P-144		
10:40	Coffee break and posters	
11:25	WG meeting: Liquid scintillation counting	

Wednesday, 10th June 2015

Session: Radionuclide metrology techniques (I)		
Chairpersons: J. Keightley, C. Bobin		
12:10	Monte Carlo based approach to the LS-NAI β-γ anticoincidence extrapolation and uncertainties <i>Ryan P. Fitzgerald</i>	O-001
12:30	Measurement of tritium using cavity ring-down spectroscopy <i>Stéphane Plumeri, Cédric Bray, Agnès Pailloux</i>	O-021
12:50	Poster introduction (I): <i>J. Keightley, C. Bobin</i>	
Decay-dead-time corrections for live-timed counting systems with extending and non-extending dead-times <i>Ryan P. Fitzgerald</i>		P-004
Activity standardization of Co-60 and Fe-59 by the $4\pi\beta(PC)$-γ coincidence method <i>M. Zhang, J. Liang, S.H. Yao S.H. and H.R. Liu</i>		P-005
Standardization and half-life measurements of ^{111}In <i>T. Dziel, A. Listkowska, Z. Tymiński</i>		P-007
Measurement of ^{124}I <i>M. Sahagia, R-M. Ioan, A. Antohe, A.Luca, C. Ivan</i>		P-013
Development of the modified sum-peak method and its application <i>Y. Ogata, H. Miyahara, M. Ishihara, N. Ishigure, S. Yamamoto, S. Kojima</i>		P-028
Simulated simultaneous beta-gamma ray emission for $4\pi\beta$-γ coincidence counting using EGS5 code <i>Y. Unno, T. Sanami, S. Sasaki, M. Hagiwara, A. Yunoki</i>		P-037
Effect of time walk in the use of single channel analyzer/discriminator for saturated pulses in the $4\pi\beta$-γ coincidence experiments <i>Yasushi Kawada, Akira Yunoki, Takahiro Yamada and Yoshio Hino</i>		P-038
Improvements of the standardization of ^{134}Cs by the critical window setting for 605 keV photopeak <i>Akira Yunoki, Yasushi Kawada and Yoshio Hino</i>		P-051
Radical: radionuclide activity using digital instrumentation and coincidence/anti-coincidence logic <i>L.J. Bignell, W.M. van Wyngaardt, M.L. Smith, T.W. Jackson, B. Howe, M.I. Reinhard, T. Steele</i>		P-086
Standardization of ^{59}Fe by $4\pi(PC)\beta$-γ software coincidence system <i>M. F. Koskinas, I. M. Yamazaki, and M. S. Dias</i>		P-091
13:00	Lunch and company exhibition Prechtlsaal	

Wednesday, 10th June 2015

Session: Radionuclide metrology techniques (II)		
Chairpersons: M. Unterweger, P. De Felice		
14:15	Standardization and precise determination of the half-life of Sc-44 <i>E. García-Toraño, V. Peyrés, M. Roteta, A. Sánchez-Cabezudo, E. Romero, A. Martínez Ortega</i>	O-105
14:35	Calculation of extrapolation curves in the $4\pi(\text{LS})\beta\text{-}\gamma$ coincidence with the Monte Carlo code GEANT4 <i>C. Bobin, C. Thaim, J. Bouchard</i>	O-134
14:55	Activity measurement of ^{68}Ge-^{68}Ga by use of $4\pi(\beta^+\gamma)$ integral counting method <i>T. Yamada, Y. Kawada and A. Yunoki</i>	O-183
15:15	Poster introduction (II): <i>M. Unterweger, P. De Felice</i>	
Determination of the limits and responses of nuclear track detectors in mixed radon and thoron atmospheres <i>Anja Honig, Annette Röttger, Dieter Schrammel, Heinrich F. Strauss</i>		
A novel method for the activity measurement of large area beta reference sources <i>D. Stanga, P. De Felice, J. Keightley, M. Capogni, I. Razvan</i>		
Standardization of ^{60}Co and ^{134}Cs by the $4\pi \beta(\text{LS})\text{-}\gamma$ coincidence counting system and calibration of ionization chamber at PTKMR - Batan <i>Pujadi Marsoem, Gatot Wurdianto and Hermawan Candra</i>		
^{56}Mn, ^{60}Co, ^{18}F and ^{22}Na activity measurements by coincidence technique at VNIIM <i>E. Tereshchenko, N. Moiseev, A. Kolodka</i>		
Absolute measurement of ^{198}Au activity in foil using plastic scintillator and well-type NAI(TL) detector <i>Yun Ho Kim, Hyeonseo Park, Junggho Kim, Jong Man Lee</i>		
An alternative model and procedures for activity determination of large area beta emitting sources <i>A. Švec, A. Javornik</i>		
Absolute standardization of the impurity ^{121}Te associated to production of radiopharmaceutical ^{123}I <i>Araújo, M. T. F., Poledna, R., Delgado, J. U., Silva, R. L., Iwahara, A., Silva, C. J., Tauhata, L., Laranjeira, A. S., Loureiro, J. S., Gomes, R. S., Toledo, B. C., Cruz, P. A. L.</i>		
Influence of the type of CD case on the track density distribution in CDS exposed to thoron <i>I. Dimitrova, S. Georgiev, D. Pressyanov, B. Sabot, N. Michielsen, S. Bondiguel, K. Mitev, P. Cassette</i>		
Standardization of ^{59}Fe by $4\pi\beta\text{-}\gamma$ efficiency extrapolation coincidence method <i>C. J. da Silva, P. A. L. da Cruz, A. Iwahara, R. L. da Silva, R. Poledna, J. U. Delgado, I. Tauhata</i>		
Activity standardization of ^{67}Ga and ^{75}Se <i>J. Sochorová, P. Auerbach</i>		
Uniformity measurement of wide area reference sources for beta emitters <i>Masahiro Ohshiro, Takuya Shiina and Takahiro Yamada</i>		
Source self-attenuation in ionization chamber measurements of Co-57 solutions <i>J. T. Cessna; D. B. Golas; D.E. Bergeron</i>		
Fast radionuclide mixtures identification based on spiking neural network <i>O. Bichler, C. Bobin, C. Thiam and M. Thevenin</i>		
F-18 primary standard at ENEA-INMRI by three absolute techniques and calibration of the well-type IG11 ionization chamber <i>M. Capogni, P. Carconi, P. De Felice, A. Fazio</i>		
$4\pi\beta(\text{PS})\text{-}4\pi\gamma(\text{GE})$ list-mode coincidence counter and its applications <i>T. Yamada, Y. Kawada and Y. Sato</i>		

Wednesday, 10th June 2015

15:30	Coffee break and posters
16:15	WG meeting: Radionuclide metrology techniques
17:15	Close of conference day 3
19:20	Coaches leave from TU Wien Resselgasse 2, 1040 Wien
20:00– 23:00	Traditional Viennese Heurigen dinner Restaurant „Buschenschank Fuhrgasl-Huber“ Neustift am Walde 68, 1190 Wien

Thursday, 11th June 2015

Session: Low-level radioactivity measurement techniques		
<i>Chairpersons: M. Hult, D. Arnold</i>		
09:00	Calibration of low-level beta-gamma coincidence detector systems <i>Kirill Khrustalev, Matthias Auer, Abdelhakim Gheddou, Elisabeth Wieslander</i>	O-128
09:20	Improvement of a low-level measurement spectrometer using an “extendable gate signal” <i>L. Ferreux, J. Bouchard, C. Millon</i>	O-135
09:40	Development of a low-level Ar-37 calibration standard <i>Richard M Williams, et al.</i>	O-190
10:00	A campaign for tracing radioactivity from Fukushima <i>M. Aoyama, M.Hult, Y. Hamajima, H.Stroh, G Marissens, F. Tzika, G. Lutter</i>	O-203
10:20	Poster introduction: <i>M. Hult, D. Arnold</i>	
	Dry deposition velocity of Cs-137 and Cs-134 in Spain after the Fukushima nuclear power plant accident <i>A. Vargas, A. Camacho, M. Laubenstein, W. Plastino</i>	P-014
	Development of a protocol to measure iron-55 in the solid matrices of the environment <i>C. Augeray, M. Mouton, N. Broustet, M.F. Perdereau, C. Laconici, J. Loyer, J.L. Picolo</i>	P-031
	Investigation of radon soil gas measurement results for improving the radon potential measurement techniques <i>F. Kabrt, F.J. Maringer</i>	P-043
	Clarification of the calculation of minimum detectable activity in low-level radioactivity measurements <i>K.B. Lee, Jong-Man Lee, S. H. Lee, Tae Soon Park, J. S. Oh, J. B. Han, B. J. Kim</i>	P-053
	Determination of the Am-241 activity in real contaminated slag <i>D. Arnold, O. Burda, H. Wershofen</i>	P-095
	Comparison of different sampling methods for the determination of low-level radionuclides in air <i>MA.Duch, I. Serrano, V. Cabello, A. Camacho</i>	P-111
	An activity calibration system for airborne ¹³¹I monitoring device <i>C. Zhao, F. Tang, L. He, Y. Xu, X. Lu</i>	P-114
	Determination of ²¹⁰Pb, ²¹⁰Po, ²²⁶Ra, ²²⁸Ra and uranium isotopes in drinking waters in order to comply with the requirements of the EU 'Drinking water directive' <i>M. Vasile, H. Loots, K. Jacobs, L. Verheyen, F. Verrezen, M. Bruggeman</i>	P-124
	Monitoring beryllium-7 and tritium in rainwater in Daejeon, Korea and its significance <i>Kyeong Ja Kim, Yire Choi, Yoon-Yeol Yoon</i>	P-155
	Long-term background measurements in the Belgrade low-level underground laboratory <i>R. Banjanac, D. Joković, D. Maletić, V. Udovičić, N. Veselinović, M. Savić, A. Dragić</i>	P-161

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A principle of shielding design of cosmic veto for low background gamma spectrometer on the ground <i>Qingdong Hu, Hao Ma, Zhi Zen, Jianping Cheng, Junli Li</i>	P-165
An evaluation of naturally occurring radioactivity concentration levels across the state of Kuwait <i>H.Shams, A.Bajoga, N.Alazemi, A.Bajoga, D.A,Bradley, P.H.Regan</i>	P-202
Direct counting of low activities of tritium in water using an high volume liquid scintillation counter <i>K. Galliez, H. Lorand, R. Vidal</i>	P-207
Radiation study of the ground water in the vicinity of Ulaanbaatar and some uranium deposits <i>Tsookhuu K., Bolormaa O2., Orlokh D., Tegshbayar N.</i>	P-208
Optimizing peaked background corrections in environmental gamma-ray spectrometry <i>A. Muring, T.B. Aleksandersen, T. Gäfvert, J. Drefvelin</i>	P-210
GIOVE – a new background mile stone in shallow laboratory low level germanium spectroscopy <i>G. Heusser, M. Weber, J. Hakenmueller, M. Laubenstein, M. Lindner, W. Maneschg, H. Simgen, D. Stolzenburg, H. Strecker</i>	P-218

10:40	Coffee break and posters
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Session: Gamma-ray spectrometry (I)		
<i>Chairpersons: O. Sima, F.J. Maringer</i>		
11:30	Equivalence of computer codes for calculation of coincidence summing correction factors – part II <i>T. Vidmar, A. Camp, S. Hurtado, H Jäderström, J. Kastlander, M-C. Lépy, G. Lutter, H. Ramebäck, O. Sima, A. Vargas</i>	O-019
11:50	Low level measurement of ⁶⁰ Co by gamma-ray spectrometry using γ - γ coincidence <i>H. Paradis, A. de Vismes Ott, M. Luo, X. Cagnat, R. Gurriaran, F. Piquemal</i>	O-058
12:10	Application of Gum Supplement 1 to uncertainty of Monte Carlo computed efficiency in gamma-ray spectrometry <i>O. Sima, M.-C. Lépy</i>	O-104
12:30	Poster introduction: <i>O. Sima, F.J. Maringer</i>	
	Determination of LaBR ₃ (Ce) internal background using a HPGe detector and Monte Carlo simulations <i>A. Camp, A. Vargas, J. M. Fernández-Varea</i>	P-015
	Measurement function for the activities of multi-gamma-ray emitters in gamma-ray spectrometric measurements <i>M. Korun, B. Vodenik and B. Zorko.</i>	P-023
	Calculation of the decision threshold in gamma-ray spectrometry using sum peaks <i>M. Korun, B. Vodenik and B. Zorko</i>	P-024

<p>Uncertainty assessment in the free-release measurement by gamma spectrometry of rotating waste drums <i>D. Stanga, O. Sima, D. Gurau</i></p>	P-040
<p>A quick technique to improve the geometry characterisation of aged HPGe detectors for MC code efficiency calculation <i>Moser, H., Maringer, FJ</i></p>	P-041
<p>On the iteration of coincidence summing correction for determination of gamma-ray intensities <i>Y. Shima, H. Hayashi, Y. Kojima, R. Jyousyou, M. Shibata</i></p>	P-044
<p>Low-level measurement by gamma-gamma coincidence spectrometry <i>A. de Vismes Ott, H. Paradis, X. Cagnat, R. Gurriaran, F. Piquemal</i></p>	P-059
<p>Comparison of LABSOCS and GESPECOR codes used in gamma-ray spectrometry <i>L. Done, L. C. Tugulan, D. Gurau, F. Dragolici, C. Alexandru</i></p>	P-062
<p>A prototype of radioactive waste drum by non-destructive assays using gamma spectrometry <i>T. T. Thanh, H. T. K. Trang, H. D. Chuong, V. H. Nguyen, L. B. Tran, H. D. Tam and C. V. Tao</i></p>	P-069
<p>Assessing sample attenuation parameters for use in low-energy efficiency transfer in gamma-ray spectrometry <i>M. Bruggeman, L. Verheyen, T. Vidmar, B. Liu</i></p>	P-076
<p>A way of testing the calculation of true coincidence summing correction factors <i>T. Vidmar, M. Bruggeman, L. Verheyen</i></p>	P-080
<p>Detector intrinsic efficiency calibration for parallel incident photons <i>LIU Haoran, WU Jinjie, LIANG Juncheng, CHEN Fajun, LI Zeshu</i></p>	P-106
<p>Experimentally validated Monte Carlo simulation of a XtRa-Nal(Tl) Compton suppression system response <i>M.I. Savva, M.J. Anagnostakis</i></p>	P-126
<p>L X-ray satellite effects on the determination of photon emission intensities of radionuclides <i>M. Rodrigues, M. Loidl</i></p>	P-140
<p>Development of an optimized Compton-suppressed gamma-ray spectrometric system using Monte Carlo simulation <i>Yire Choi, K.B. Lee, Kyeong Ja Kim, J.B. Han, Eung Seok Yi</i></p>	P-167
<p>Analysis of size-fractionated soil samples by gamma spectrometry <i>M.I. Savva, D.J. Karangelos, M.J. Anagnostakis and S.E. Simopoulos</i></p>	P-168
<p>Measurement and calculation of the linear-to-square curve in gamma-ray spectrometry <i>T. Vidmar, M. Bruggeman, L. Verheyen</i></p>	P-176
<p>A revision factor to the Cutschall self-attenuation correction in ²¹⁰Pb gamma-spectrometry measurements <i>P. Jodłowski</i></p>	P-187

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12:50	Lunch and posters Prechtlsaal
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Session: Gamma-ray spectrometry (II) <i>Chairpersons: M.-C. Lépy, P. De Felice</i>	
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14:00	Determination of absolute photon emission intensities of Pb-210 <i>M. Rodrigues, P. Cassette, M.-C. Lépy, M. Loidl, Y. Ménesguen</i>	O-138
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14:20	Development of the NPL gamma-ray spectrometer NANA for traceable nuclear decay and structure studies <i>P. H. Regan, G. Lorusso, R. Shearman, S. M. Judge, S. Bell, S. Collins, C. Larijani, P. Ivanov, S. Jerome, J.D. Keightley, S. Lalkovski, A.K. Pearce, Zs. Podolyak</i>	O-201
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14:40	WG meeting: Low-level measurement techniques
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15:10	WG meeting: Gamma-ray spectrometry
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15:50	Coffee break
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16:20	Best poster award & conference closing
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16:30- 18:30	Joint Workshop ICRM – COST NORM4BUILDING HS 13 (Ernst Melan Hörsaal)
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ICRM Executive Board Meeting (I) Seminarraum AA 04 28	
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Friday, 12th June 2015

09:00	ICRM General Meeting at BEV Schiffamtsgasse 1-3, 1020 Wien, U2 Schottenring (exit <u>Herminengasse!</u>)	Visit - Vienna International Center & IAEA Laboratories VIC, Gate 1 - Main Entrance, 1220 Wien U1 Kaisermühlen
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13:00	General Meeting lunch at BEV Schiffamtsgasse 1-3, 1020 Wien	
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ICRM Executive Board meeting (II) at BEV Schiffamtsgasse 1-3, 1020 Wien, U2 Schottenring (exit <u>Herminengasse!</u>)	
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