

Tentative Programme

Note: definitive agenda will be published upon confirmation of all authors.

Monday 11.06.2012

18:00 20:00 Ice break event - Early registration

Tuesday 12.06.2012

08:00 09:30 Late registration

09:30	10:00	Opening session	Radioecology's coming of age on the spot	J-P. Lacroix (IRE ELiT, Chairman) and F. Bréchnignac (IUR, France)
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Session 2 - New technologies and methodologies in radioactivity metrology

10:00	10:30	Key Note Lecture	In situ gamma-ray spectrometry as a tool for investigation of radionuclide variations in coastal seawater and sediment – recent developments and applications	P. Povinec (Slovakia)
10:30	10:50		Continuous Radioactivity Monitoring System in Area of Influence Proton Linac	L. Kravchuk et al. (Russia)
10:50	11:20	<i>Coffee break</i>		
11:20	11:40		An Introduction to the Impact of Mo-99 Production on the International Monitoring System	J. Friese et al. (USA)
11:40	12:00		High resolution monitoring system for IRE stack releases	B. Deconninck et al. (Belgium)
12:00	12:20		Digital gamma-gamma coincidence and anticoincidence spectrometry development and its applications in environmental radionuclide monitoring using list-mode two-dimensional and multispectral data acquisition	W. Zhang et al. (Canada)
12:20	12:40		EFFTRAN – A free tool for efficiency transfer and true coincidence summing corrections in gamma-ray spectrometry	T. Vidmar et al. (Belgium)
12:40	13:50	<i>Lunch break</i>		
13:50	14:10		Development and test of cartography tool in a contaminated site	F. Panza et al. (France)
14:10	14:30		Measurements of 210Pb activity in soils and soil sediments	P. Wachniew et al. (Poland)
14:30	14:50		Determination of 226Ra, 228Ra and 210Pb in NORM Products from Oil and Gas Exploration: Problems in Activity Underestimation due to the Presence of Heavy Metals and Self-Absorption of Photons	S. Landsberger et al. (USA)
14:50	15:20	<i>Coffee break</i>		

INSINUME 2012

[In situ Nuclear Metrology as a tool for radioecology]

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Session 3 - Quality Assurance			
15:20	15:50	Key Note Lecture	M. Betti (MEL, Monaco)
15:50	16:10	Certified reference materials and reference methods for nuclear safeguards and security	R. Jakopic et al. (Belgium)
16:10	16:30	NUSIMEP-7: Uranium isotope amount ratios in uranium particles	J. Truyens et al. (Belgium)
16:30	18:00	Poster session A	

Wednesday 13.06.2012

Session 4 - Radioactivity levels in environment and transfer of radionuclides			
09:00	09:30	Key Note Lecture	Importance of chemical speciation in assessing transfer of radionuclides in the environment E. Steinnes (Norway)
09:30	09:50		Modelling the influence of soil parameters on speciation and distribution of long-lived radionuclides in soils V. Hormann et al. (Germany)
09:50	10:10		SLIM: A finite-element, unstructured-mesh model for simulating the fate of anthropogenic contaminants in the land-sea continuum. Case study: the Scheldt tidal continuum. B. De Brye et al. (Belgium)
10:10	10:30		Theory and models radiocapacity in modern radioecology Y. Kutlakhmedov (Russia)
10:30	11:00	<i>Coffee break</i>	
11:00	11:20		<i>Fate and transport of radiocesium, radiostrontium and radiocobalt in urban building materials</i> A. Konoplev / V. Popov et al. (Russia)
11:20	11:40		Study of Pu and Am migration in environmental matrixes G. Lujaniene et al. (Lithuania/Czech Rep./Sweden)
11:40	12:00		Distribution and sources of anthropogenic radionuclides (¹³⁷ Cs, Pu and ²⁴¹ Am) in peat profiles from SW Spitsbergen using different analytical methods E. Lokas et al. (Poland/USA)
12:00	12:20		Natural and man-made gamma emitters in Gulf of Eilat / Aqaba sediments D. Pittauerova (Germany)
12:20	12:40		Time series data from in situ gamma spectroscopy measurements H.W. Fischer et al. (Germany)
Afternoon	Social Activity		

Thursday 14.06.2012

Session 4 (continued)				
09:00	09:20		Assessment of radiation exposure to the environment and non-human biota and associated risk linked with liquid discharges from the Belgian nuclear power plants of Tihange and Doel	H. Vandenhove et al. (Belgium)
09:20	09:40		Comparative assessment of erosion and deposition rates on cultivated land in the Transylvanian Plain of Romania using ¹³⁷ Cs and ²¹⁰ Pb inventories	A.R. Iurian et al. (Romania)
09:40	10:00		²¹⁰ Po as an indicator of biosedimentation processes in the Black Sea	G. Lazorenko et al. (Ukraine)
10:00	10:20		Dynamics of the ⁹⁰ Sr and ¹³⁷ Cs concentrations in biotic and abiotic components of the Black Sea ecosystem after the Chernobyl NPP accident	N.Y. Mirzoyeva et al. (Ukraine)
10:20	10:50	<i>Coffee break</i>		
10:50	11:10		Determination and evaluation of natural radioactivity and heavy metal levels in surface sediments of Maritza and Tundja River	S. Aytas et al. (Turkey)
11:10	11:40		Air Radioactivity Monitoring by Higher Plants	J. Ajtic et al. (Serbia)
11:40	12:00		An Overview of ²²⁶ Ra and ²²⁸ Ra in Drinking Water in Several Counties in Texas, USA	S.G. Landsberger et al. (USA)
12:00	12:20		Natural activity of the Carpathians National Parks soils: the spatial, geomorphological factors and radionuclide standards	V. Maslyuk et al. (Ukraine)
12:20	13:30	<i>Lunch break</i>		
Session 1 - Regulatory framework concerning the release of radionuclides and the monitoring of radioactivity in the environment				
13:30	14:00	Key Note Lecture	The new Basic Safety Standards Directive and its implications for environmental monitoring	A. Janssens (EC, Luxembourg)
14:00	14:20		Analysis of International Recommendations on Calculation of Absorbed Dose in Biota	W. Pereira et al. (Brazil)
Session 5 - Impact of radioactivity on environment and population				
14:20	14:50	Key Note Lecture	Ecosystem approach for Environment protection	F. Bréchnac (IUR, France)
14:50	15:10		<i>The effects of long-term radiation exposure in aquatic ecosystems within the Chernobyl accident exclusion zone</i>	D. Gudkov et al. (Ukraine)
15:10	15:40	<i>Coffee break</i>		
15:40	16:00		Assessment of doses to game animals in Finland	V. Vettiko et al. (Finland)
16:00	16:20		Removal of radionuclides in drinking water by membrane treatment (RO, EDR, UF)	M. Montana et al. (Spain)
16:20	16:40		Dose assessment from ²²² Rn for workers in the industrial mining and the processing of granites	Grygorieva L. et al. (Ukraine)
16:40	18:00	Poster session B		
19:30	Conference Dinner			

Friday 15.06.2012

Session 6 - Nuclear metrology in incidental/accidental conditions

09:00	09:30	Key Note Lecture	Agricultural land management options following large-scale environmental contamination – Evaluation for Fukushima Affected territories	H. Vandenhove (SCK.CEN, Belgium)
09:30	09:50		Low level aerosol filters measurements by gamma-ray spectrometry in France during the Fukushima accident	A. De Vismes et al. (France)
09:50	10:10		Evaluation of the first month of release of radionuclides to the marine environment resulting from the accident at the Fukushima Daiichi Nuclear Power Station	W. Pereira et al. (Brazil/Japan)
10:10	10:40	<i>Coffee break</i>		
10:40	11:00		Global and regional dispersal of Fukushima-derived fission nuclides: Free tropospheric versus boundary layer transport	C-A. Huh et al. (Taiwan)
11:00	11:20		Lessons from the IRE incident in 2008	J-M. Vanderhofstadt (Belgium)
11:20	12:00	Closing session		