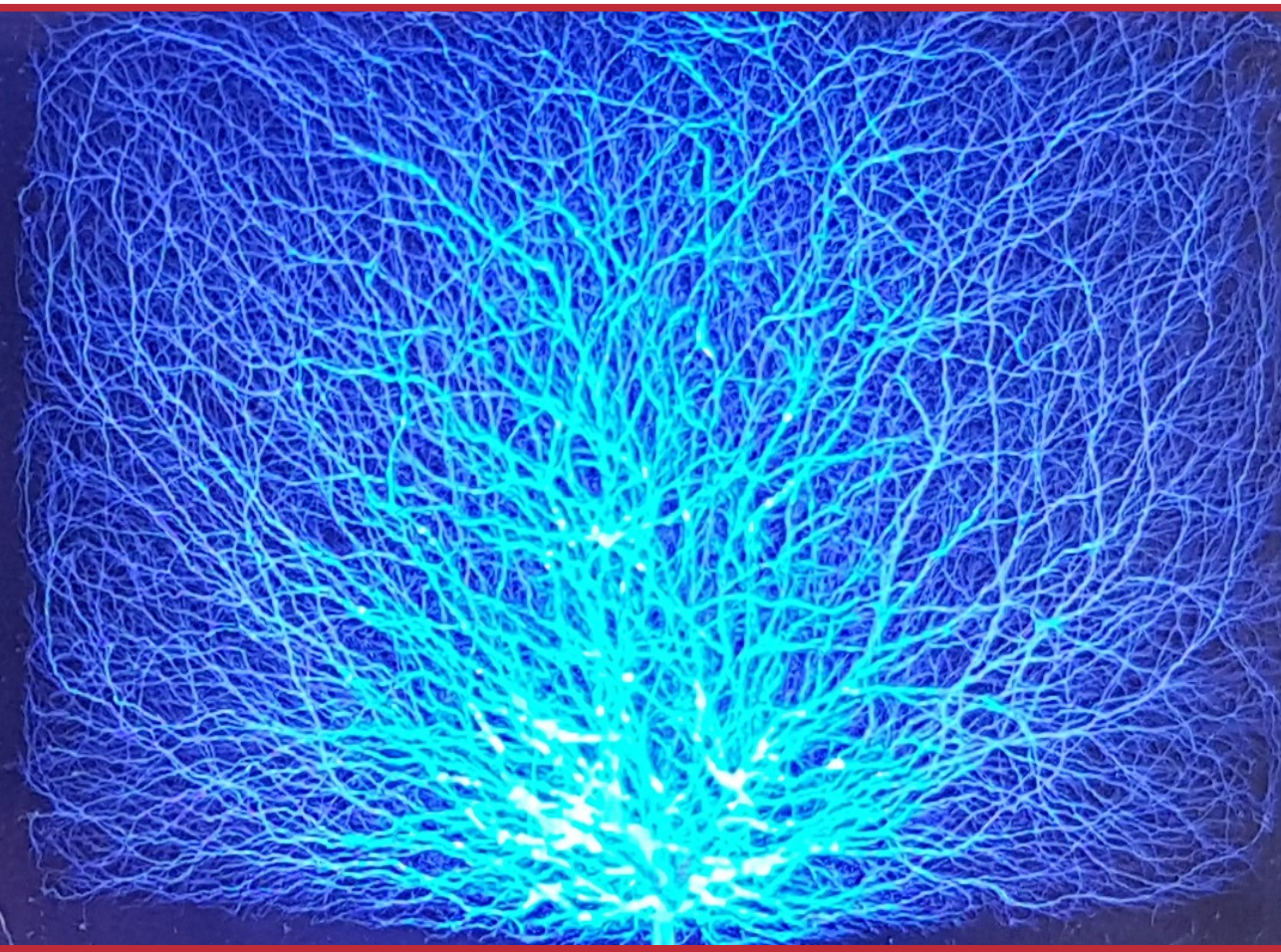
LSC 2017



An International Conference on advances in Liquid Scintillation Spectrometry

1-5 May 2017
Copenhagen, Denmark

PROGRAM

LSC2017 -Advances in Liquid Scintillation Spectrometry

Organisers:
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SSM - Swedish Radiation Safety Authority, www.ssm.se IAEA - International Atomic Energy Agency, www.iaea.org

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http://lsc2017.nutech.dtu.dk/

LSC2017 sponsors:

Welcome to LSC2017

Welcome to LSC2017, an international conference on advances in liquid scintillation spectrometry. LSC2017 conference follows the LSC series conferences initiated in 1957 and the last one in 2013 in Barcelona, becomes the 23rd edition of this conference. This is the first time this conference come to Nordic countries, the LSC2017 conference is organized by Technical University of Denmark (DTU) in cooperated with IAEA (International Atomic Energy Organization) and Swedish Radiation Safety Authority (SSM). We, the Center for Nuclear Technologies in DTU, are happy to host this conference in Copenhagen.

Liquid scintillation spectrometry has being an important radiometric technique for measurement of radionuclides and widely used not only in the nuclear field, but also many other fields. Compared to the newly developed techniques, such as accelerator mass spectrometry (AMS) and ICP- MS, liquid scintillation spectrometry is considered as a traditional and mature technique. However, the LSC technique continues to develop in the recent years, and remarkable progress on the LSC methodology has been achieved. In particular, the TDCR (triple-to-double coincidence ratio) based LSC method and instruments have obtained a great success. The tedious quench correction and counting efficiency calibration in the conventional LSC measurement can be avoid, and even absolute measurement of radionuclide activity using LSC become realistic. The application of LSC techniques shows constantly increasing, indicated by the increasing LSC instruments installation and research publications. Meanwhile, there are still some challenges in the LSC methodology and its application in some research fields. LSC2017 conference provides a platform to all participants to present your recent achievements, exchange the experience, knowledge and idea, and discuss the challenges we faced. The topics of the LSC2017 conference aims to cover all aspects related to LSC technique, from new development on LSC methodology to its application in different fields.

We are happy to have about 200 participants and exhibitor representatives from 36 countries registered in the conference. More than 180 peer-reviewed papers are accepted for presentation. The high quality program including 14 invited lectures, 75 oral presentations and more than 85 poster presentations, give an excellent overview in all aspects in the LSC methodology and applications. The LSC2017 proceedings will be published in a special issue in JRNC (J. Radioanal. Nucl. Chem.), the submission system have opened from 1st April and will close on 1st June. Full papers of all presentations both oral and poster are invited to submit to the LSC2017 conference proceedings, the selected papers through JRNC ordinary peer-review process will be published.

I would like to thank all participants and exhibitors for your efforts and interest to the LSC2017 conference, special thanks to the organizing institutions DTU Nutech and Swedish Radiation Safety Authority for their finically support. I want to thank the scientific committee members for their great work on reviewing the abstracts and organizing the sessions. Grateful thanks are also dedicate to my colleagues in DTU Nutech and the organizing committee members for their hard and productive work in the preparation of the conference.

Hope all of you enjoy the conference and your stay in our wonderful Copenhagen!

Xiaolin Hou
Chairman of LSC2017 conference
Professor of Technical University of Denmark

Preliminary program of LSC 2017 conference

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	8:00 Registration/Breakfast	8:00 Breakfast	8:00 Breakfast	8:00 Breakfast	8:00 Breakfast
	Opening Session	Nuclear chemistry	Natural radionuclides and other topics	Plastic scintillator	Tritium studies
	9:00 Welcome speech	8:30 Invited talk	8:30 Invited talk	8:30 Invited talk	8:30 Invited talk
		8:55 Oral	8:55 Oral	8:55 Oral	8:55 Oral
		9:10 Oral	9:10 Oral	9:10 Oral	9:10 Oral
	9:40 Opening lecture	9:25 Oral	9:25 Oral	9:25 Oral	9:25 Oral
		9:40 Oral	9:40 Oral	9:40 Oral	9:40 Oral
		9:55 Oral	9:55 Oral	9:55 Oral	9:55 Oral
		10:10 Oral	10:10 Oral	10:10 Oral	10:10 Oral
	10:25 Coffee break	10:25 Coffee break	10:25 Coffee break	10:25 Coffee break	10:25 Coffee break
	New development and spectrum analysis-1	Metrology and quality assurance-1	Metrology and quality assurance-2	Environmental radioactivity-2	Environmental radioactivity-3
	10:45 Invited talk	10:45 Invited talk	10:45 Invited talk	10:45 Invited talk	10:45 Invited talk
	11:10 Oral	11:10 Oral	11:10 Oral	11:10 Oral	11:10 Oral
	11:25 Oral	11:25 Oral	11:25 Oral	11:25 Oral	11:25 Oral
	11:40 Oral	11:40 Oral	11:40 Oral	11:40 Oral	11:40 Oral
	11:55 Oral	11:55 Oral	11:55 Oral	11:55 Oral	11:55 Oral
	12:10 Oral	12:10 Oral	12:10 Oral	12:10 Oral	12:10 Close ceremony
	12:25 Lunch	12:25 Lunch	12:25 Lunch	12:25 Lunch	12:40 Lunch
Registration/Reception	Neutrino and neutron detection	New development and spectrum analysis-2	Social activity	Medicine and other topics	
	13:40 Invited talk	13:40 Invited talk	13:40-17:30 Tour to Hamlet castle	13:40 Oral	
	14:05 Oral	14:05 Oral		14:00 Oral	
	14:20 Oral	14:20 Oral		14:20 Oral	
	14:35 Oral	14:35 Oral		14:35 Oral	
15:00 -18:00 Registration	14:50 Oral	14:50 Oral		14:50 Oral	
	15:05 Oral	15:05 Oral		15:05 Oral	
	15:20 Oral	15:20 Oral		15:20 Oral	
	15:35 Oral	15:35 Oral		15:35 Oral	
	15:50 Coffee break	15:50 Oral		15:50 Oral	
	Environmental radioactivity-1	16:05 Coffee break		16:05 Coffee break	
16:00-18:00 Reception	16:10 Invited				
	16:35 Oral				
	16:50 Oral	16:20-17:40 Poster session-1		16:20-17:40 Poster session-2	
	17:05 Oral				
16:00-17:00 Concert by Zapolski Strings	17:20 Oral				
	17:35 Coffee break				
		17:40 Coffee break	18:00-22:00 Conference dinner (Tivoli)		
	18:00-20:00 Workshop-1	18:00-20:00 Workshop-2			

Monday

8:00-9:00	Registration				
Opening Session (Chaired by Prof. Xiaolin Hou)					
9.00	Welcom speeches	HOU Xiaolin	Technical University of Denmark	Denmark	
		LYNOV Jens-Peter	Technical University of Denmark	Denmark	
9.20		NIELSEN Sven	Technical University of Denmark	Denmark	Six decades of environmental-radioactivity measurements
09.40	Opening lecture	Dr. KOSSERT Karsten	Physikalisch-Technische Bundesanstalt	Germany	Radionuclide metrology using LSC: Current status and limitations
	Coffee break				

Session: New development on LSC instrumentation methodology, scintillator and spectrum analysis-1
(Chaired by: Dr. Philippe Cassette, France and Prof. Chunli Liu, China)

Time	ID	Title	Author	Affiliation	Country	Presentation Title
10.45	166	Dr.	JANDA Jiri (invited)	University of Defence, NBC Defence Inst.	Czech Republic	The comparison of scintillation properties of YAP:Ce, YAG:Ce and ZnO:Ga powders as a potential substitution of liquid scintillation cocktail
11.10	130	Prof.	OMTVEDT Jon Petter	University of Oslo, Dep. of Chemistry, P.O. Box 1033 - Blindern, NO-0315 Oslo	Norway	On-line LS Spectroscopy of Super-heavy Elements
11.25	113	Dr.	FENG Xiaogui	Institute of Nuclear and New Energy Technology, Collaborative Innovation Center of Advanced Nuclear	China	A performance comparison of two liquid scintillation counters from PerkinElmer, Inc.
11.40	126	Dr.	MITEV Krasimir	Sofia University, St. Kliment Ohridski, Faculty of Physics	Bulgaria	Design and performance of a miniature TDCR counting system
11.55	170	Prof.	DEVOL Timothy A	Dep. of Environmental Engineering and Earth Science, Clemson University	USA	New pyrazoline fluorophores for more efficient organic scintillators
12.10	147	Mr.	WANG Yadong	China Inst. for Radiation Protection	China	Effect of sodium salicylate on the determination of Pb-210/Bi-210 and Ra-228/Ac-228 by Cerenkov counting
12:25	Lunch					

Monday ... continued

Session: LSC in neutrino and neutron detection (Chaired by: Dr. Xiongxin Dai, Canada and Dr. Sven Nielsen, Denmark)						
13:40	226	Dr.	YEH Minfang (invited)	Brookhaven National Laboratory	USA	Water-based and Metal-doped Liquid Scintillator for Neutrino Detection
14:05	175	Dr.	XIONGXIN Dai	China Inst. for Radiation Protection	China	Boron-10 and Lithium-6 Loaded Scintillator for Neutron Detection
14:20	122	Dr.	BERGERON Denis	Physical Measurement Lab., Nat. Inst. of Standards and Technology	USA	Phase stability and lithium loading capacity in a liquid scintillation cocktail
14:35	173	Prof.	FAN Tieshuan	Inst. for Heavy Ion Physics, School of Physics, Peking Uni.	China	The Deuterium-Deuterium neutron time-of-flight spectrometer at EAST tokamak
14:50	291	Prof.	LIU Hongjie	Chinese Academy of Engineering Physics	China	Liquid Scintillator Neutron Detection System for Fast-ignition
15:05	218	Dr.	TIAN Lianpeng	Queens University	Canada	Synthesis and Characterization of Organic Tellurium Compounds for SNO+ Liquid Scintillator
15:20	161	Mr.	BEAUMONT Jonathan S.	International Atomic Energy Agency	Austria	A Fast-neutron Coincidence Collar Using Liquid Scintillators for Fresh Fuel Verification
15:35	228	Prof.	ZHANG Xiaodong	School of Nuclear Science and Technology, Lanzhou Uni.	China	Next-Generation, Micron-order Resolution Neutron Imaging with Gel Scintillator Filled Glass Capillary Arrays
15:50	Coffee break					
Session: Application in environmental radioactivity-1 (Chaired by Prof. Gabriele Wallner, Austria and Dr. Jost Eikenberg, Switzerland)						
16:10	123	Dr.	PITOIS Aurelien (invited)	International Atomic Energy Agency, IAEA Environment Lab.	Austria	IAEA's ALMERA Effort Towards Harmonization of Radioanalytical Procedures: Development and Validation of a Rapid Procedure for Simultaneous Determination of ^{89}Sr and ^{90}Sr in Soil Samples Using Cerenkov and Liquid Scintillation Counting
16:35	142	Dr.	KIM Hyuncheol	Environmental Radioactivity Assessment Team, Korea Atomic Energy Research Inst.	Korea	Determination of radiostrontium in seawater using automated separation system at routine and emergency situation
16:50	135	Dr.	LANDSTETTER Claudia	Austrian Agency for Health and Food Safety Ltd.	Austria	Tritium and Gross Alpha and Beta Measurements performed for the Official Radioactivity Monitoring in Austria
17:05	141	Dr.	BRAEKERS Damien	IRE Elit	Belgium	Rapid analysis of ^{90}Sr and ^{99}Tc in low active effluent using extraction disks: the advantages of the use of liquid scintillation counting
17:20	35	Mr.	MASHABA M.	Northwest University, CARST	South Africa	Gross Alpha – Beta Measurements of Water Samples from Wonderfonteinspruit Catchment Area in the Gauteng Province South Africa using LSC
17:35	Coffee break					
Hidex Workshop: Hidex – Serving LSC Community, How to Get the Most out of Your TDCR triple Coincidence Detector						
18:00-20:00		Dr.	EIKENBERG Jost	Paul Sherrer Institute	Switzerland	Practical approach to TDCR - theory, how to use TDCR on different applications, advantages and limitations (Invited speaker, open)
	296	Mr.	JUVONEN Risto	Hidex	Finland	Triple Coincidence Detector facilitating Luminescence Free Counting of H-3 (Risto Juvonen, product manager, Hidex)
	297	Mr.	JUVONEN Risto	Hidex	Finland	Optimization of alpha/beta separation conditions using 2D Graphical tool (Risto Juvonen, product manager, Hidex)
There will be a Hidex 300 SL counter in working condition at the workshop so the participants can have a chance to test TDCR and other instrument features. Hidex will provide a bag with a small gift and product material to participants. Drinks and light foods are provided.						

Tuesday

Session: LSC in nuclear chemistry (decommissioning , waste processing and nuclear materials)
(Chaired by: Prof. Nora Vajda, Hungary and Prof. Phil E. Warwick, UK)

Time	ID	Title	Author	Affiliation	Country	Presentation Title
8:30	235	Prof.	WARWICK Phillip (invited)	University of Southampton	UK	Rapid on-site screening of aqueous waste streams using dip stick technology & liquid scintillation counting
8:55	82	Prof.	VAJDA Nóra	RADANAL Ltd.	Hungary	Validation of radiochemical methods for the determination of difficult-to-measure nuclides using LSC
9:10	184	Mr.	MAXWELL Sherrod	Savannah River Nuclear Solutions, LLC	USA	Rapid Method for the Determination of Sr-90 in Steel and Concrete Samples
9:25	248	Dr.	MARSH Richard	Raddec Intl. Ltd /GAU-Radioanalytical	UK	A new bomb-combustion system for tritium extraction
9:40	286	Dr.	BRENNETOT René	Den - Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Sacla	France	Application of LSC for ^{3}H, ^{14}C, ^{36}Cl, ^{41}Ca and ^{63}Ni determination in various matrix from nuclear waste
9:55	149	Dr.	SHI Keliang	Radiochemistry Lab, School of Nuclear Science and Technology, Lanzhou Uni.	China	Determination of technetium-99 in UO_2 samples using liquid extraction separation and LSC measurement
10:10	106	Dr.	BAGÁN Héctor	Universitat de Barcelona	Spain	PSresins for the characterization of nuclear wastes: application to ^{126}Sn and ^{63}Ni
10:25	Coffee break					
Session: Radionuclides metrology using LSC, standardization and quality assurance-1 (Chaired by Dr. Brian E. Zimmerman USA and Prof. Leifeng Cao, China)						
10:45	105	Dr.	THIAM Cheick (invited)	CEA, LIST, Lab. National Henri Becquerel (LNE-LNHB)	France	Adaptation of PTB's analytical modelling for TDCR-Cherenkov activity measurements at LNE-LNHB
11:10	104	Dr.	KOSSERT Karsten	Physikalisch-Technische Bundesanstalt (PTB)	Germany	Primary activity standardization of ^{134}Cs
11:25	270	Dr.	MARGANIEC-GALAZKA Ju	Physikalisch-Technische Bundesanstalt (PTB)	Germany	Activity determination of 88Y by means of 4Pi(LS)Beta-Gamma coincidence counting
11:40	211	Mr.	LIU Haoran	National Institute of Metrology	China	Standardization of Na-22 by the CIEMAT/NIST method
11:55	269	Mr.	KELLETT Mark A.	CEA, LIST, Lab. National Henri Becquerel (LNE-LNHB)	France	The use of recommended decay data from the DDEP for activity determinations using LSC
12:10	134	Dr.	VAN ROOY Milton	NMISA	South Africa	First absolute standardization of ^{18}F at NMISA via 4π (LS)β-γ counting for SIRTI comparison
12:25	Lunch					

Tuesday ... continued

Session: New development on LSC instrumentation methodology, scintillator and spectrum analysis-2 (Chaired by Dr. Jean Aupiais, France and Prof. Jon Petter Omtvedt, Norway)						
13:40	136	Mr.	NICHOLS Nathaniel J. (invited)	Environmental Eng. and Earth Sciences, Clemson University	USA	Computational modeling of organic fluor molecules
14:05	181	Prof.	KIM Hong Joo	Dep. of Physics, Kyungpook National University	Korea	Development of multifunctional digital pulse processing module for particle identification in liquid scintillator
14:20	205	Dr.	Ryszard Broda	NCBJ RC POLATOM	Poland	An influence of the TDCR system settings on the radionuclides standardization
14:35	243	Dr.	BORRAS Antoni	University of the Balearic Islands	Spain	Design and development of a miniaturized detector for radionuclide determination in automated flow systems
14:50	194	Dr.	BÉLIER Gilbert	CEA, DAM, DIF, DPTA Centre du Grand rue	France	Use of active scintillating targets in nuclear physics experiments - measurement of spontaneous fission
15:05	305	Prof.	Liu Shenye	Chinese Academy of Engineering Physics	China	Fabrication and characterization of low afterglow liquid scintillator
15:20	168	Mr.	FONS-CASTELLS Jordi	Lab. of Environmental Radioactivity of the Uni. of Barcelona	Spain	Combination methods for rapid determination of mixtures of alpha and beta emitters in water samples
15:35	237	Mr.	LEE Ukjae	Ulsan National Inst. of Science and Technology	Korea	Multiple Beta Spectrum Analysis Method Based on Spectrum Fitting
15:50	139	Prof.	WU Wangsuo	Radiochemistry Lab., Lanzhou University	China	A method for ^{237}Np determination with liquid scintillation counting in the experiment of neptunium sorption onto bentonite
16:05	Coffee break					
16:20-17:40	**Poster session-1**					
	Sessions: New development on LSC instruments, scintillators and spectrum analysis; Radionuclides metrology and quality assurance; LSC for Neutrino and neutron detection; LSC in Nuclear chemistry; Plastic scintillator and application (Chaired by Dr. Jixin Qiao, Denmark)					
17:40	Coffee break					
PerkinElmer Workshop: Advances in Ultra low level detection and alpha beta separation						
18:00-20:00	Presentation-1			PerkinElmer		GCT technology combined with BGO guard background reduction to accurately measure down to near-background levels
	Presentation-2			PerkinElmer		Dual PSA Discriminators to categorize marginal events for optimal Alpha Beta separation and improved quality metric

Wednesday

Session: Application in natural radionuclides measurements and other topics
(Chaired by Dr. Siegurd Möbius, Germany and Dr. Dennis Ringkjøbing Elema, Denmark)

Time	ID	Title	Author	Affiliation	Country	Presentation Title
8:30	275	Prof.	Chałupnik Stanisław (Invited)	Central Mining Institute (GIG)	Poland	LSC for the measurements of radon and its decay products
8:55	252	Prof.	MATHUTHU Manny	North-West University (Mafikeng)	South Africa	Determination of Lead isotope ratios for Nuclear Forensic signatures from uranium mine products in South Africa
9:10	114	Dr.	BANU Ozden	Institute of Nuclear Sciences, Ege Uni.	Turkey	Evaluation of Methods for the Determination of ^{210}Pb and ^{210}Po in Ca-rich Ash Samples
9:25	262	Prof.	JULL A J Timothy	University of Arizona	USA	Studies of anthropogenic Iodine-129 using accelerator mass spectrometry in corals and ocean water
9:40	36	Dr.	QIAO Jixin	DTU Nutech, Center for Nuclear Technologies	Denmark	Development of radiochemical methods at DTU Nutech, Denmark
9:55	145	Prof.	CAO Leifeng	Laser Fusion Research Center, CAEP	China	Simulation of neutron encode imaging with liquid scintillator filled capillary array
10:10	278	Ms.	CHOUDHURY Dibyasree	Saha Institute of Nuclear Physics	India	Estimation of α emitting polonium radionuclides in proton irradiated lead bismuth targets by LSC-TD
10:25	Coffee break					

Session: Radionuclides metrology using LSC, standardization and quality assurance-2
(Chaired by Dr. Karsten Kossert, Germany and Prof. Timothy Jull, USA)

10:45	283	Dr.	ZIMMERMAN Brian (invited)	Physical Measurement Lab., National Institute of Standards and Technology	USA	Uncertainty Assessment in Liquid Scintillation Counting
11:10	203	Dr.	CASSETTE Philippe	CEA, LIST Lab. National Henri Becquerel (LNE-LNHB)	France	With a little bit of effort, manufacturers could make better LS counters, even suitable for radionuclide metrology
11:25	129	Dr.	PUJOL Luis	Centro de Estudios y Exp. de Obras Públicas (CEDEX)	Spain	Implementation of ISO/IEC 17025 in a low level liquid scintillation tritium laboratory
11:40	284	Dr.	CAPOGNI Marco	ENEA National Institute of Ionizing Radiation Metrology	Italy	Bilateral comparison of C-14 activity measurements at the NCBJ RC POLATOM and the ENEA-INMRI
11:55	223	Dr.	VERREZEN Freddy	Belgian Nuclear Research Center (SCK-CEN)	Belgium	Long-term performance of liquid scintillation laboratory of LRM, SCK•CEN
12:10	236	Dr.	GACA Pawel	University of Southampton	UK	LSC calibration stability over long timescales
12:25	Lunch					

13:40-17:30	Social activity - Tour to Hamlet castle
18:00-22:00	Conference dinner (Tivoli)

Thursday

Session: Plastic scintillator and application
(Chaired by Prof. Jose F. Garcia and Dr. Alex Tarancon, Spain)

Time	ID	Title	Author	Affiliation	Country	Presentation Title
8:30	165	Dr.	GARCIA Jose F. (invited)	Dept. Chemical Engineering and Analytical Chemistry. Uni. of Barcelona	Spain	Plastic scintillators and related analytical proposals for radionuclide analysis
8:55	124	Dr.	ETSUKO Furuta	Ochanomizu University	Japan	Measurement of tritium with plastic scintillators in large vials of a low background LSC -an organic waste-less method
9:10	154	Dr.	MITEV Krasimir	Sofia University St. Kliment Ohridski	Bulgaria	Synthesis and characterisation of scintillating microspheres made of polystyrene/ polycarbonate for ^{222}Rn measurements
9:25	169	Prof.	DEVOL Timothy A	Environmental Engineering and Earth Sciences Dep., Clemson Uni.	USA	Development of stable extractive scintillating materials for quantification of radiostrontium in aqueous solutions
9:40	190	Mr.	BAE Jun Woo	Ulsan National Inst. of Science and Technology	Korea	Development of continuous inflow tritium in water measurement technology by using electrolysis and plastic scintillator
9:55	207	Ms.	SAEZ-MUÑOZ Marina	Lab. de Radiactividad Ambiental. Uni. Politècnica de Valènc	Spain	^{89}Sr/^{90}Sr determination in milk in emergency situations by using PSresins
10:10	225	Dr.	DEAKIN Tom Deakin	The University of Sheffield	United Kingdom	Development of low cost per unit area plastic scintillator materials for radiation detection and monitoring applications
10:25	Coffee break					

Session: Application in environmental radioactivity-2
(Chaired by Mr. Aurelien Pitois, IAEA and Prof. Mikael Jensen, Denmark)

10:45	128	Dr.	PUJOL Luis (invited)	Centro de Estudios y Exp. de Obras Públicas (CEDEX)	Spain	Comparison of several methods for measuring ^{222}Rn in drinking water
11:10	267	Prof.	LIU Chunli	College of Chemistry & Molecular Engineering, Peking Uni.	China	Application of LSC Techniques in Environmental Radiochemistry Research in China
11:25	150	Dr.	ASLAN Nazife	Turkish Atomic Energy Auth., Sarayköy Nuclear Research and Training Center	Turkey	Adsorptive Removal of Lead-210 Using Hydroxyapatite Nanopowders Prepared From Phosphogypsum Waste
11:40	167	Dr.	KRAJCAR BRONIC Ines	Ruđer Bošković Institute	Croatia	Experience after 10 years of monitoring ^{14}C in the vicinity of the Nuclear Power Plant Krško, Slovenia
11:55	178	Ms.	VOS VAN AVEZATHE A.	RIKILT Wageningen University & Research	The Netherlands	Comparison study on low-level Sr-90 measurements for the Dutch food monitoring program
12:10	185	Dr.	RIDONE Sandro	ENEA - Radiation Protection Inst. - Integrated Lab. of Radioactivity Measurement and Monit	ITALY	Determination of ^{90}Sr and ^{89}Sr in water and urine samples by chemical separation and Cherenkov count
12:25	Lunch					

Thursday ... continued

Session: Application in medicine and other topics (Chaired by Dr. Mats Eriksson, Sweden and Dr. Steffen Happel, France)						
13:40	306	Prof.	JENSEN Mikael	DTU Nutech, Center for Nuclear Technologies	Denmark	Liquid Scintillation Counting in Quality Control of PET radiopharmaceuticals
14:00	25	Prof.	HOU Xiaolin	DTU Nutech, Center for Nuclear Technologies	Denmark	LSC for quality control of ^{99m}Tc eluate from ^{99}Mo-^{99m}Tc generator
14:20	285	Prof.	GREIFE Uwe	Department of Physics, Colorado School of Mines	USA	Functionalization of Polymers with Fluorescent and Neutron Sensitive Groups for Efficient Neutron and Gamma Detection
14:35	255	Ms.	KHUMALO Ntokozo	North-West University (Mafikeng)	South Africa	A comparison of LSC and Isotopic Techniques in Resolving Nuclear Forensic Signatures in Uranium Mini
14:50	296	Mr.	JUVONEN Risto	HIDEX Oy	Finland	Luminescence free counting of H-3 facilitated by Hidex 300 SL/600 SL TDCR triple coincidence counter
15:05	297	Mr.	HAASLAHTI Ville	HIDEX Oy	Finland	Optimization of a/b separation using 2D graphical tool
15:20		Mr.	SERRALUNGA Michel	ZINSSER ANALYTIC GMBH	Germany	Alternative technical solutions for L.S.Counting of low activities environmental samples
15:35	132	Dr.	EDLER Ronald	PerkinElmer	Germany	Measurement of Tritium, gross alpha/beta and ^{222}Rn with the new Quantulus GCT 6220 according to council directive 2013/51 Euratom
16:05	Coffee break					
16:20-17:40	Poster session 2					
	Sessions: Application environmental radioactivity; Application in medicine; Application in tritium studies; LSC for natural radionuclides measurement ; Applications based on alpha/beta spectrometry and other topics (Chaired by Dr. Kasper Andersson)					

Friday

Session: Application in tritium studies (Chaired by Dr. Nicolas Baglan, France and Dr. Per Roos, Denmark)						
Time	ID	Title	Author	Affiliation	Country	Presentation Title
8:30	271	Dr.	BAGLAN Nicolas (invited)	CEA/DAM/DIF	FRANCE	Tritium analysis strategy regarding activity concentration levels in monitoring situations
8:55	117	Dr.	ETSUKO Furuta	Ochanomizu University	Japan	Apparatus for measurement of tritium in expiration with plastic scintillator
9:10	213	Dr.	VARLAM Carmen	Tritium Lab., Inst. for Cryogenics and Isotopic Technologies ICSI	Romania	Homogeneity Assessment for Grass Items from Organically Bound Tritium Proficiency Test
9:25	176	Ms.	GOMES Ana RIta	Instituto Superior Técnico, Uni. de Lisboa	Portugal	Determination of tritium in water using isotopic enrichment. Methodology improvements
9:40	182	Ms.	XU Qinghua	Inst. of Materials, China Academy of Engineering Physics	China	A new efficiency measuring way for the liquid scintillation counting method
9:55	231	Mr.	CHEN Qianyuan	Radiation Monitoring Technical Center, Ministry of Environmental Protection	China	Quench correction in the analysis of Organic Bonded Tritium (OBT) in biota samples
10:10	180	Dr.	KOŽAR LOGAR Jasmina	University of Yaoundé I, Faculty of Science	Cameroon	Tritium content in tissue free water (TFWT) in African coconuts
10:25	Coffee break					
Session: Application in environmental radioactivity-3 (Chaired by Prof. Stanisław Chałupnik, Poland and Dr. Mun Ja Kang, Korea						
10:45	281	Dr.	CHUNG Kun Ho (invited)	Environmental Radioactivity Assessment Team, Korea Atomic Energy Research Inst.	Korea	Automation of the radiochmical procedures for the sequential separation of radionuclides
11:10	272	Mr.	JEROME Simon Mark	National Physical Laboratory	United Kingdom	Determination of ^{242m}Am by Extraction Chromatography and Liquid Scintillation Counting
11:25	277	Dr.	ROOS Per	DTU Nutech, Center for Nuclear Technologies	Denmark	A comparison of methodologies in analysing 210Pb-210Bi-210Po
11:40	201	Ms.	MULLINS Sarah	Department of Health	Australia	The comparison of two liquid scintillation instruments for analysis of highly quenched samples
11:55	245	Dr.	NODILO Marijana	Ruđer Bošković Institute	Croatia	Subsequent determination of ^{90}Sr and ^{210}Pb in goat bones samples from Island of Mljet, Croatia
12:10	Close ceremony					
12:40	Lunch					

Poster session 1

Id	Title	Author	Affiliation	Country	Abstract title	Session
131	Dr.	BUZYNNYI Mykhailo	Inst. of Environmental Geochemistry NAS of Ukraine	Ukraine	Teflon vials for precise C-14 in benzene measurements by LSC techniques	New development on LSC instruments, scintillators and spectrum analysis
153	Dr.	AUPIAIS Jean	CEA, DAM, DIF, F-91297 Arpajon France	France	Evaluation of several liquid & solid scintillators in terms of pulse shape discrimination for fission studies	New development on LSC instruments, scintillators and spectrum analysis
163	Mr.	THOMSON James	Meridian Biotechnologies Ltd.	UK	LSC Counting - Dos and Donts	New development on LSC instruments, scintillators and spectrum analysis
164	Dr.	KRAJCAR BRONIC Ines	Ruđer Bošković Institute	Croatia	Determination of biogenic component in liquid fuels by the ^{14}C method and direct LSC measurement	New development on LSC instruments, scintillators and spectrum analysis
189	Dr.	DEAKIN Tom	LabLogic Systems Ltd.	UK	Development of the 'WILMA' LSC platform for the online monitoring of radionuclides in air and water	New development on LSC instruments, scintillators and spectrum analysis
202	Dr.	SABOT Benoit	CEA/LNE-LNHB	France	A new compact TDCR-Cerenkov counter for the online measurement of ^{56}Mn activity	New development on LSC instruments, scintillators and spectrum analysis
212	Mr.	HAASLAHTI Ville	Hidex	Finland	Improved counting efficiency determination by core function modelling in triple to double coincidence ration counter	New development on LSC instruments, scintillators and spectrum analysis
215	Mr.	JUVONEN Risto	Hidex Oy	Finland	Luminescence free liquid scintillation counting method	New development on LSC instruments, scintillators and spectrum analysis
232	Mrs.	KATO Yuka	Measuring Systems Engineering Dept., Hitachi, Ltd.	JAPAN	Development of a method to measure filter sample using plastic scintillator	New development on LSC instruments, scintillators and spectrum analysis
292	Ms.	KABAI Eva	Federal Office for Radiation Protection	Germany	Approach to the uncertainty estimation of the $^{89}Sr/^{90}Sr$ determination by LSC	New development on LSC instruments, scintillators and spectrum analysis
148	Dr.	ÖZÇAYAN Gülten	Turkish Atomic Energy Auth., Sarayköy Nuclear Research and Training Center	TURKEY	Assignment of Reference Value for ^{90}Sr in Black Tea Powder used as TAEK Proficiency Test Sample	Radionuclides metrology and quality assurance
138	Mr.	YELTEPE Emin	Turkish Atomic Energy Auth. - Sarayköy Nuclear Research and Training Center	Turkey	Standardization of ^{170}Tm with CIEMAT/NIST efficiency tracing, TDCR and gamma spectrometric methods	Radionuclides metrology and quality assurance
143	Dr.	ZIMMERMAN Brian	Physical Measurement Lab., National Inst. of Standards and Technology	USA	Correlation in the Application of the Triple-to-Double Coincidence Method with Unequal Photomultiplier Tube Efficiencies	Radionuclides metrology and quality assurance
151	Dr.	JIANG Jun	AWE plc	UK	The Measurement of Tb-160 and Tb-161 by Liquid Scintillation Counting	Radionuclides metrology and quality assurance
192	Ms.	GAIGALAITÉ Lina	Center for Physical Sciences and Technology (FTMC)	Lithuania	Standardization of tritium with the TDCR instrument	Radionuclides metrology and quality assurance
177	Mrs.	KATO Yuka	Measuring Systems Engineering Dept., Hitachi, Ltd.	Japan	New calibration method for liquid scintillation counter using plastic scintillator	Radionuclides metrology and quality assurance
251	Mr.	CHAE Jung-Seok	Korea Inst. of Nuclear Safety	Korea	Determination of ^{210}Pb by liquid scintillation counting of ^{210}Pb and its progenies	Radionuclides metrology and quality assurance
276	Prof.	CHALUPNIK Stanislaw	Silesian Centre for Environmental Radioactivity, Central Mining Inst.	Poland	Application of LSC for measurements of concentrations of radon and thoron decay products in air	Radionuclides metrology and quality assurance
279	Ms.	ERIKSSON Sofia	Swedish Radiation Safety Auth., Dept. of Radiation Protection	Sweden	DON'T TRUST YOUR MEMORY IN THE LAB – the implementation of a quality control program for LSC	Radionuclides metrology and quality assurance
298	Mr.	TEMPLE Simon	Meridian Biotechnologies Ltd	UK	External Standard Channels Ratio on Hitachi Aloka AccuFLEX LSC-8000	Radionuclides metrology and quality assurance
303	Ms.	TAN Hiong Jun Angela	DSO National Laboratories	Singapore	Simultaneous Analysis of Strontium and Cesium in a Single Process	Radionuclides metrology and quality assurance
304	Mr.	LOO Howe Kiat	DSO National Laboratories	Singapore	Application of DGA Resin for Yttrium Extraction during Strontium Analysis	Radionuclides metrology and quality assurance
127	Prof.	ZHANG Zhiyong	Inst. of High Energy Physics, The Chinese Academy of Sciences	China	Preparation of Gadolinium Loaded Liquid Scintillator for Daya Bay Neutrino Experiment	LSC for Neutrino and neutron detection
137	Mr.	LI Jinghuai	China Institute of Atomic Energy	China	Fast Neutron Multiplicity Detectors Based on Liquid Scintillators for uranium Mass determination	LSC for Neutrino and neutron detection
145	Prof.	CAO Leifeng	Laser Fusion Research Center, CAEP	China	Simulation of neutron encode imaging with liquid scintillator filled capillary array	LSC for Neutrino and neutron detection

Poster session 1

Id	Title	Author	Affiliation	Country	Abstract title	Session
198	Prof.	KOSHIMIZU Masanori	Tohoku University	Japan	Synthesis of ZrO_2 nanoparticles for liquid scintillators for neutrinoless double beta decay detection	LSC for Neutrino and neutron detection
81	Mr.	RAJEC Pavol	Comenius University, Dep. of Nuclear Chemistry	Slovakia	Radionuclides determination by LSC during routine operation of nuclear power plants and its decommissioning	LSC in Nuclear chemistry
90	Mr.	GOUDEAU Vincent	CEA, Direction of Fundamental Research, Unities for Protection Health and Security, Environment	France	In situ measurement of ^{90}Sr activity using direct liquid scintillation counting (ISMAD LSC): application to decommossioning projects	LSC in Nuclear chemistry
125	Ms.	GAUTIER C.	Den - Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Uni. Paris	France	Is it easy to improve radiochemical methods in respect of REACH regulation?	LSC in Nuclear chemistry
256	Mr.	YUN Yong-Gi	Korea Inst. of Nuclear Safety	Korea	Pre-concentration method using oxalate co-precipitation with MnO_2 for determination of ^{90}Sr	LSC in Nuclear chemistry
260	Dr.	KIM Daeji	NA	South Korea	Evaluation of ^{14}C analysis using Pyrolyser system for decommissioned materials	LSC in Nuclear chemistry
261	Dr.	DIRKS Carina	TrisKem International	France	On the development of an extraction chromatographic resion for the separation and determination of selenium	LSC in Nuclear chemistry
295	Ms.	WOLF Sarah	Helmholtz-Zentrum Berlin für Materialien und Energie GmbH	Germany	Quantitative determination of Ni-63 wipe tests by liquid scintillation analysis (LSA)	LSC in Nuclear chemistry
301	Dr.	LIM Jong Myoung	Korea Atomic Energy Research Institute	Korea	The Radiological Characterization of Concrete and Soil from Decommissioning Process of Research Reactor	LSC in nuclear Chemistry
302	Ms.	JEONG Kahee	KHNP Central Research Institute	Korea	Laboratory infrastructure and utilization plan for radiochemical analysis	LSC in nuclear Chemistry
119	Dr.	ETSUKO Furuta	Ochanomizu University	Japan	A plastic scintillation counter for tritiated water measurement as vapor	Plastic scintillator and application
120	Dr.	GARCIA J.F.	Department of Analytical Chemistry. Uni. of Barcelona	Spain	^{90}Sr and ^{99}Tc determination in Radioactive Ion Exchange Resins coming from Nuclear Wastes	Plastic scintillator and application
204	Mr.	HIYAMA Fumiyuki	Dep. of Applied Chemistry, Graduate School of Engineering, Tohoku Uni.	Japan	X-ray detection capabilities of plastic scintillators incorporated with hafnium oxide nanoparticles	Plastic scintillator and application
224	Dr.	TARANCON Alex	University of Barcelona	Spain	Plastic scintillation foils for the measurement of the alpha and beta emitting radionuclides	Plastic scintillator and application
238	Prof.	KIM Sunghwan	Cheongju University	Korea	Fabrication and Characterization of 3D Printed Plastic Scintillator	Plastic scintillator and application
239	Dr.	MINOWA Haruka	The Jikei University School of Medicine	Japan	Rapid separation and easy measurement using plastic scintillator for radiostrontium in seawater	Plastic scintillator and application
250	Dr.	MITEV Krasimir	Sofia University St. Kliment Ohridski	Bulgaria	A Laboratory Study of Scintillation Counting of Polycarbonates	Plastic scintillator and application

Poster session 2

Id	Title	Author	Affiliation	Country	Abstract title	Session
80	Dr.	SAUEIA Caıtia	IPEN - CNEN/SP	Brazil	Assessment of ^{90}Sr by liquid scintillation counting (LSC) in marine fish species consumed in the city of São Paulo	Application environmental radioactivity
93	Mrs.	BAO Li	China Inst. for Radiation Protection	China	Carbon-14 concentration in aqueous samples from southeast of China	Application environmental radioactivity
109	Dr.	STOJKOVIC Ivana	University of Novi Sad, Faculty of Technical Sciences	Serbia	Optimization of rapid ^{90}Sr/^{90}Y screening method in waters via Cherenkov radiation detection	Application environmental radioactivity
110	Dr.	STOJKOVIC Ivana	University of Novi Sad, Faculty of Technical Sciences	Serbia	Evaluation of different LSC methods for ^{222}Rn determination in waters	Application environmental radioactivity
115	Dr.	IDOETA Raquel	Dpto. de Ingeniería Nuclear y Mecánica de Fluidos, ETSI de Bilbao, UPV	Spain	Use of the IAEA rapid simultaneous determination of ^{89}Sr and ^{90}Sr in milk as a routine method for environmental purposes	Application environmental radioactivity
116	Dr.	IDOETA Raquel	Dpto. de Ingeniería Nuclear y Mecánica de Fluidos, ETSI de Bilbao, UPV	Spain	Ra-226 determination by LSC and alpha-spectrometry in by-products from oil industry	Application environmental radioactivity
155	Mr.	WIATR K.	National Veterinary Research Institute	Poland	Pilot Studies on ^{90}Sr in Meat, Milk and Dairy Products from the Polish Market	Application environmental radioactivity
156	Dr.	KRIŠTOF Romana	Jožef Stefan Institute	Slovenia	Biolubricant measurements by direct LSC method	Application environmental radioactivity
172	Ms.	COHA Ivana	Ruđer Bošković Institute	Croatia	Optimisation of Tri-Carb Liquid Scintillation Counter for Cherenkov Counting of ^{90}Sr/^{90}Y	Application environmental radioactivity
174	Dr.	HERMANSPAHN Nikolaus	Inst. of Environmental Science and Research Ltd	New Zealand	Sample pre-treatment for HTO measurements in biota and seawater	Application environmental radioactivity
187	Dr.	FUNDA Barlas Şimşe	Turkish Atomic Energy Aut., Çekmece Nuclear Research and Training Center	Turkey	Determination of Sr-90 in soil and sediment samples with double energetic window Method by LSC	Application environmental radioactivity
200	Dr.	YAN Zeyi	Lanzhou University	China	Determination of Pu in environmental water samples using TEVA microextraction chromatography separation and liquid scintillation counter measurement	Application environmental radioactivity
208	Dr.	JOBBAGY Viktor	European Commission, Joint Research Centre (EC-JRC)	Belgium	Optimization of liquid scintillation counting technique for a European interlaboratory comparison in gross alpha/beta activity concentrations in water	Application environmental radioactivity
209	Mrs.	WALLNER Gabriele	Institut für Anorganische Chemie, Uni. Wien	Austria	Radionuclide extraction from aqueous solutions by Ionic Liquids	Application environmental radioactivity
210	Dr.	VASILE Mirela	SCK-CEN	Belgium	Applicability of the 3M EmporeTM RAD disks for rapid determination of ^{90}Sr and ^{99}Tc by liquid scintillation counting	Application environmental radioactivity
222	Mr.	DOUMONT Cédric	IRE Elit	Belgium	The Belgian St-Adele fountain as a natural sample source for an interlaboratory comparison exercise	Application environmental radioactivity
233	Dr.	VAGNER Irina	National R&D Inst. for Cryogenics and Isotopic Technologies – ICSI	Romania	Comparison of two methods for C-14 analysis from essential oils using LSC	Application environmental radioactivity
257	Ms.	GAIGALAITÉ Lina	Center for Physical Sciences and Technology (F TMC)	Lithuania	Measurement of radiocarbon and tritium in a single sample: simultaneous and radiochemistry approaches	Application environmental radioactivity
282	Dr.	OSVATH Szabolcs	National Public Health Center, National Research Directorate for Radiobiology and Radiohygiene	Hungary	Determination of Ra-226 in natural water samples by liquid scintillation counting	Application environmental radioactivity
290	Dr.	CHUNG Sungwook	Korea Basic Science Institute	Republic of Korea	Radon-222 Radioactivity in Groundwater	Application environmental radioactivity
288	Dr.	SALMINEN-PAATERO Susanna	University of Helsinki, Department of Chemistry	Finland	^{90}Sr in surface air of Rovaniemi (Finnish Lapland) in 1965-2011	Application environmental radioactivity
274	Prof.	CHALUPNIK Stanislaw	Central Mining Inst., Silesian Centre for Environmental Radioactivity	Poland	The role of LSC methods in implementation of the Euratom Directive 51/2013 for the monitoring of radioactivity of water supplies in Poland	Application environmental radioactivity
244	Dr.	BORRAS Antoni	University of the Balearic Islands	Spain	Automated dispersive liquid-liquid microextraction of ^{99}Tc from biological samples and hospital residues previous liquid scintillation counting	Application in medicine and other topics
259	Mr.	KO Raymond	Radiation Protection Bureau, Health Canada	Canada	Radiobioassay method for the determination of isotopes from fuel particles	Application in medicine and other topics
213	Dr.	VARLAM Carmen	Tritium Lab., Inst. for Cryogenics and Isotopic Technologies ICSI	Romania	Homogeneity Assessment for Grass Items from Organically Bound Tritium Proficiency Test	Application in tritium studies

Poster session 2

Id	Title	Author	Affiliation	Country	Abstract title	Session
157	Dr.	KRIŠTOF Romana	Jožef Stefan Institute	Slovenia	Tritium in environment around NPP Krško	Application in tritium studies
180	Dr.	KOŽAR LOGAR Jasmina	University of Yaoundé I, Faculty of Science	Cameroon	Tritium content in tissue free water (TFWT) in African coconuts	Application in tritium studies
247	Ms.	PÁNTYA Annamária	Hungarian Acad. of Sciences, Centre for Energy Research	Hungary	Tritium internal dose estimation with liquid scintillators	Application in tritium studies
146	Dr.	KANG Yeong-Rok	Research Center, Dongnam Inst. of Radiological & Medical Sciences	Republic of Korea	Study on optimization of liquid scintillation counting during tritium measurements	Application in tritium studies
152	Mrs.	MARESOVA Diana	T. G. Masaryk Water Research Inst.	Czech Republic	Determination of very low level tritium volume activities in surface water and precipitation in the Czech Republic	Application in tritium studies
158	Dr.	FENG Lin	Third Institute of Oceanography	China	Determination of the baseline organically bound tritium (OBT)	Application in tritium studies
234	Dr.	SUGIHARA Shinji	Radioisotope Center, Kyushu Uni.	Japan	OBT measurement in annual ring of tree, Japan	Application in tritium studies
246	Ms.	GAIGALAITÉ Lina	Center for Physical Sciences and Technology (F TMC)	Lithuania	The decade tritium monitoring results in groundwater near a radioactive waste repository	Application in tritium studies
294	Dr.	KANG Yeong-Rok	Dongnam Institute of Radiological & Medical Sciences (DIRAMS)	Korea	Study on optimization of liquid scintillation counting during tritium measurements	Application in Tritium studies
289	Dr.	MÖBIUS Siegurd	German Society for Liquid Scintillation DGFS e.V.	Germany	Simple LS Arrangement for Education and Measurement of Natural Radionuclides in Water Samples of Madagascar and Sri Lanka	LSC for natural radionuclides measurement and other topics
107	Dr.	Juergen Wendel	German Society for Liquid Scintillation DGFS e. V.	Germany	DGFS : 15 Years of Research, Education and Training in Liquid Scintillation – Heading for More	LSC for natural radionuclides measurement and other topics
112	Dr.	NIKOLOV Jovana	University of Novi Sad, Faculty of Sciences, Dep. of Physics	Serbia	Development of direct LSC method for biogenic fraction determination in fuels	LSC for natural radionuclides measurement and other topics
159	Mr.	WANG Kaifeng	Peking University	China	Extraction and Characterization of Groundwater Colloids	LSC for natural radionuclides measurement and other topics
183	Mr.	NISTI M. B.	IPEN – CNEN/SP	Brazil	Evaluation of the LSC counting time for determination gross alpha and gross beta activity, ^{3}H and $^{90}Sr/^{90}Y$	LSC for natural radionuclides measurement and other topics
186	Prof.	MIETELSKI Jerzy-Wojc	The Henryk Niewodniczański Inst. of Nuclear Physics	Poland	Secondary electron spectra measured in modified LSC vial	LSC for natural radionuclides measurement and other topics
206	Mr.	MASHABA Machel	North West University	South Africa	Gross Alpha – Beta Measurements of Water Samples from Wonderfonteinspruit Catchment Area in the Gauteng Province South Africa using LSC	LSC for natural radionuclides measurement and other topics
253	Mr.	ABRANTES João	Instituto Superior Técnico, Uni. de Lisboa	Portugal	Suitability of gross alpha region of interest for the determination of gross alpha and gross beta activities in water by liquid scintillation counting	LSC for natural radionuclides measurement and other topics
273	Dr.	TORO Laszlo	Matefin Ltd.	Romania	Limitations of the LSC technique in alpha spectrometry of transuranium elements	LSC for natural radionuclides measurement and other topics
299	Mrs.	CHO sooyoung	Korea Institute of Geoscience and Mineral Resources(KIGAM)	Korea	^{222}Rn concentration in groundwater of geological rock types in South Korea using LSC	LSC for natural radionuclides measurement and other topics
307	Prof.	TODOROVIC Nataša	University of Novi Sad, Faculty of Sciences	Serbia	Establishment of rapid LSC method for direct alpha/beta measurements in waters	LSC for natural radionuclides measurement and other topics

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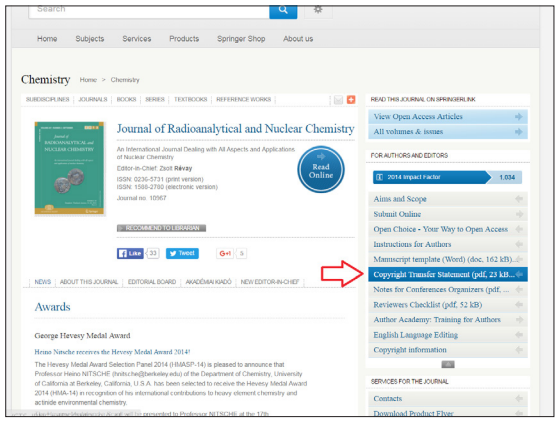

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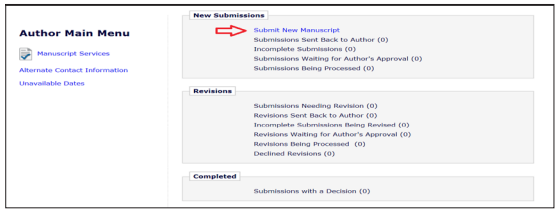

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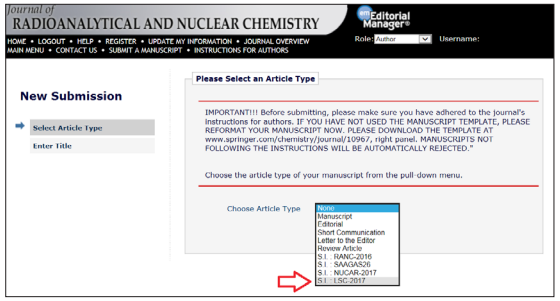

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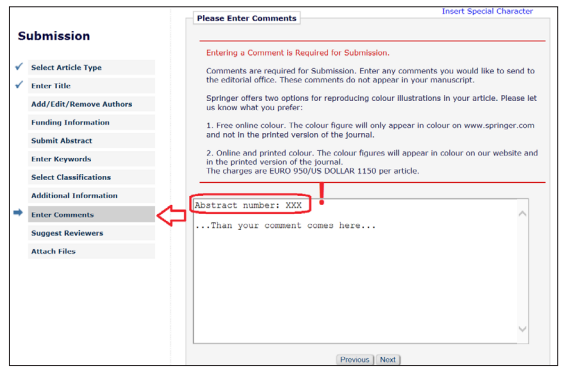

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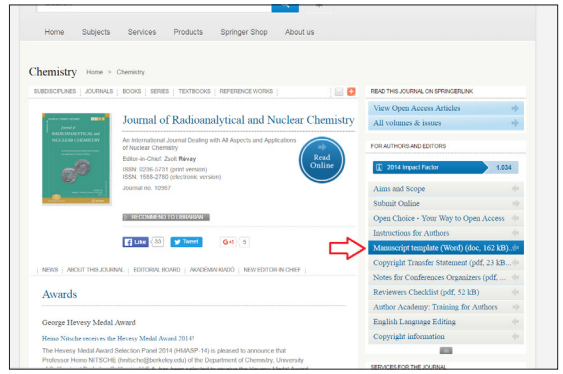

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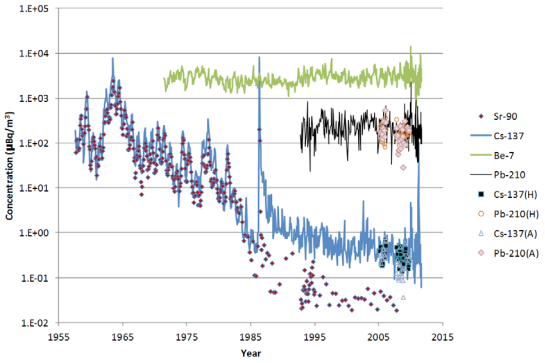

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