LSC2020 program

Schedule

<table>
<tr><td>Time
(Beijing)</td><td>10.17</td><td>10.18</td><td>10.19</td><td>10.20</td></tr>
<tr><td>8:00-9:50</td><td rowspan="3">Registration</td><td rowspan="3">Registration</td><td>Topical session 1
Topical session 3</td><td>Topical session 5
Topical session 6</td></tr>
<tr><td>9:50-10:20</td><td>Photograph
& Coffee break</td><td>Coffee break</td></tr>
<tr><td>10:20-12:10</td><td>Topical session 2
Topical session 4</td><td>Poster session</td></tr>
<tr><td>12:10-14:00</td><td colspan="4">Lunch</td></tr>
<tr><td>14:00-15:50</td><td rowspan="3">Registration</td><td>Opening ceremony
Plenary session 1</td><td>Plenary session 3</td><td>Topical session 7
Topical session 9</td></tr>
<tr><td>15:50-16:20</td><td>Coffee break</td><td>Coffee break</td><td>Coffee break</td></tr>
<tr><td>16:20-18:10</td><td>Plenary session 2</td><td>Plenary session 4</td><td>Topical session 8
Topical session 10</td></tr>
<tr><td>18:10-18:30</td><td rowspan="2">Dinner</td><td rowspan="2">Dinner</td><td rowspan="2">Banquet</td><td>Closing ceremony</td></tr>
<tr><td>18:40-20:00</td><td>Dinner</td></tr>
</table>

Presentation

Type	Report time	Discussion time
Plenary talk	25 mins	5 mins
Invitation talk	20 mins	5 mins
Oral talk	12 mins	3 mins

Poster

Time : 2021.10.20 10:20-12:10

Each poster can be downloaded from the LSC2020 website.

Program

Program		Local location	On-line
Opening and closing ceremony		Conference hall 1	ZoomA
Plenary session		Conference hall 1	ZoomA
Topical session	Session 1, 2, 5, 7, 8	Conference hall 1	ZoomB
	Session 3, 4, 6, 9, 10	Conference hall 2	ZoomC
Poster		Conference hall 1	LSC2020 website

Conference hall 1 : Zhan Yun hall, 5th floor

Conference hall 2 : Chu Nuan Hua Kai hall, 6th floor

Presentation index：

PL : Plenary presentation

I : Invited presentation

O : Oral presentation

P : Poster

Program	Session chair
Opening ceremony	Leifeng Cao
Plenary session 1	Leifeng Cao
Plenary session 2	Xiaolin Hou
Plenary session 3	Philippe Cassette
Plenary session 4	Sizhong Wu
Topical session 1	Zhilin Chen
Topical session 2	Xiongxin Dai
Topical session 3	Tsukasa Aso
Topical session 4	Yuchi Wu
Topical session 5	Hongbo Ren
Topical session 6	Chao Tian
Topical session 7	Denis Bergeron
Topical session 8	Steffen Happel
Topical session 9	Jose F. Garcia
Topical session 10	Alex Tarancon
Closing ceremony	Xiaolin Hou

10.18 pm

conference hall 1

No.	Time (Beijing)	Speaker	Institute	Title	Session Chair
Opening ceremony					
1	13:30-14:30	Shuangchen Ruan	Shenzhen Technology University, China	Opening talk	Leifeng Cao
2		Philippe Cassette	Sofia University St. Kliment Ohridski, Bulgaria		
3		Xiaolin hou	Technical University of Denmark, Denmark		
Plenary session 1					
PL01	14:30-15:00	Philippe Cassette	Sofia University St. Kliment Ohridski, Bulgaria	New developments in miniature TDCR counters	
PL02	15:00-15:30	Xiaolin hou	Technical University of Denmark, Denmark	Application of LSC in the determination of radionuclides for decommissioning and environmental radioactivity investigation	
	15:30-16:00	Coffee break			
Plenary session 2					
PL03	16:00-16:30	Alex Tarancon	University of Barcelona, Spain	Progress in new plastic scintillation microspheres	Xiaolin Hou
PL04	16:30-17:00	Steffen Happel	TrisKem International, France	On the development of new extraction chromatographic materials for the separation of difficult to measure radionuclides	

PL05	17:00-17:30	Xiongxin Dai	China Institute of radiation protection, China	TDCR Cerenkov counting for determination of beta-emitting radionuclides in environmental applications	

10.19 am

conference hall 1

No.	Time (Beijing)	Speaker	Institute	Title	Session Chair
Topical session 1 : LSC applications in environmental					
I01	08:00-08:25	Romain Coulon	Bureau International des Poids et Mesures, France	The new International Reference System for pure beta emitters	Zhilin Chen
I02	08:25-08:50	Wenqing Wu	Sichuan Institute of Materials and Technology, CAEP, China	Ultratrace analysis of 3H in Helium-3 using Liquid Scintillation Counting	
O01	08:50-09:05	Angela Tan	National Environment Agency, Singapore	Column Extraction as Rapid Clean-up Method for Tritium Analysis	
O02	09:05-09:20	Zihao Fan	National Institute of Metrology, China	New progress in Cerenkov-TDCR method study for pure beta radionuclides	
O03	09:20-09:35	Susanna Salminen-Paatero	University of Helsinki, Finalnd	Encountered challenges in determining Difficult-To-Measure radionuclides from nuclear decommissioning waste matrices by LSC	
O04	09:35-09:50	Saroa Rozas Guinea	University of the Basque Country (UPV/EHU), Spain	Selectivity analysis of Tc-99 determination by Liquid Scintillation Counting (LSC) in the field of nuclear decommissioning	
	09:50-10:20	Coffee break			
Topical session 2 : LSC applications in environmental					

I03	10:20-10:45	Haruka Minowa	The Jikei University School of Medicine, Japan	Rapid and safe method to measure radiostrontium in water samples I - chemical separation method -	Xiongxin Dai
I04	10:45-11:10	Junpeng Guo	Shanghai Hapstar Mechanical And Electrical Equipment Co., Ltd, China	Research of H-3 and C-14 Sample Preparation Technology and Equipment in the Environment	
O05	11:10-11:25	Xiaogui Feng	Tsinghua University, China	The effect of γ rays on the determination of α or β emitters by LSC	
O06	11:25-11:40	Risto Juvonen	Hidex, Finland	Comparison of mathematical methods to improve LSC background – Hidex Digital Pb Shield (DigPb) and Guard Compensation Technology (GCT)	
O07	11:40-11:55	Ines Krajcar Bronić	Ruđer Bošković Institute, Croatia	Optimization of the direct LSC method for determination of biogenic component in liquids by applying 14C	
O08	11:55-12:10	Qianyuan Chen	Radiation monitoring technical center, MEE, PRC	A summary on the monitoring method verification for tritium analysis in water	
	12:10-14:00	Lunch			

conference hall 2

No.	Time (Beijing)	Speaker	Institute	Title	Session Chair
Topical session 3 : LSC applications					
I05	08:00-08:25	Mirela Vasile	Belgian Nuclear Research Centre, Belgium	A study for the selection of NPE-free cocktails for LSC routine measurements	Tsukasa Aso
I06	08:25-08:50	Bin Feng	University of Tsukuba, Japan	Application of ALOKA LB7 in atmospheric HTO measurements	
O09	08:50-09:05	Luis Pujol	Centro de Estudios y	Validation of radon-222 measurement in drinking	

			Experimentación de Obras Públicas (CEDEX), Spain	water using LSC under the ISO/IEC 17025 criteria	
O10	09:05-09:20	Ana Gomes	Instituto Superior Técnico, Universidade de Lisboa, Portugal	Determination of PDD in 222Rn Calibration for Water Analyses by Liquid Scintillation Counting	
O11	09:20-09:35	Qifan Wu	Tsinghua University, China	Determination of 228Ra in natural water by liquid scintillation counting and its application in environmental monitoring	
O12	09:35-09:50	Ong Chen Yu	Austrian Agency for Health and Food Safety, Austria	EVALUATING THE ROBUSTNESS OF ANALYTICAL METHOD FOR THE DETERMINATION OF TRITIUM (H-3) IN SEAWATER USING PLACKETT-BURMAN DESIGNS	
	09:50-10:20	Coffee break			
Topical session 4 : LSC applications					
I07	10:20-10:45	Chuangye He	China Institute of Atomic Energy, China	Application of scintillation detectors in laser nuclear physics	Yuchi Wu
I08	10:45-11:10	Bo Cui	Laser Fusion Research Center, CAEP, China	Experimental study of high yield neutron source based on multi reaction channels	
O13	11:10-11:25	Longyong Liao	Peking University, China	The applications of compact liquid scintillation detectors in fusion neutron	
O14	11:25-11:40	Zhe Wang	Tsinghua University, China	undetermined	
O15	11:40-11:55	Chao Tian	Laser Fusion Research Center, CAEP	Study on field effect caused by strong shock wave propagation in low density gas using liquid scintillator	
O16	11:55-12:10	Risto Juvonen	Hidex, Finland	Comparison of mathematical methods to improve LSC background – Hidex Digital Pb Shield (DigPb) and Guard Compensation Technology (GCT)	
	12:10-14:00	Lunch			

10.19 pm

No.	Time (Beijing)	Speaker	Institute	Title	Session Chair
Plenary session 3					
PL06	14:00-14:30	Zhilin Chen	Institute of nuclear physics and chemistry, CAEP, China	Theoretical calculations for the substitutability of liquid scintillation cocktail using CaF2(Eu) powder in tritiated water measurements	Philippe Cassette
PL07	14:30-15:00	Tsukasa Aso	University of Toyama, Japan	Galet-LSC, Geant4 based simulation tool for liquid scintillation counter	
PL08	15:00-15:30	J.F. García	University of Barcelona, Spain	Scintillation for future in a changing world	
	15:30-16:00	Coffee break			
Plenary session 4					
PL09	16:00-16:30	Denis Bergeron	National Institute of Standards and Technology, USA	Considerations for optimizing liquid scintillation cocktails for neutron and neutrino detection	Sizhong Wu
PL10	16:30-17:00	Haoran Liu	National Institute of Metrology, China	Development of 4πβ(LS)-γ digital coincidence counting system at NIM	
PL11	17:00-17:30	Tieshuan Fan	Peking University, China	The neutron diagnostics in magnetic confinement fusion reactors	

10.20

conference hall 1

No.	Time (Beijing)	Speaker	Institute	Title	Session Chair
Topical session 5 : LSC applications in environmental and nuclear chemistry					
I09	08:00-08:25	Peng Zhou	China	undetermined	Hongbo Ren
I10	08:25-08:50	Anumaija Leskinen	Technical Research Centre of Finland (VTT), Finland	Analysis validation of Difficult To Measure Radionuclides in Decommissioning waste	
O17	08:50-09:05	Ari Lehmusvuori	Hidex, Finland	Automated Oxidizer for LSC sample preparation	
O18	09:05-09:20	Liangliang Yin	National Institute for Radiological Protection, China CDC, China	Study on the Method of Measuring ^{226}Ra in Water by Liquid Scintillation Counter and its uncertainty evaluation	
O19	09:20-09:35	Eveliina Arponen	Hidex, Finland	Novel 14C LSC method for biofuels with variable color	
O20	09:35-09:50	Ning Lv	Xi'an research institution of high technology, China	A new method for measuring uranium and plutonium aerosols in the atmosphere by using liquid scintillation spectrometer	
	09:50-10:20	Coffee break			
	10:20-12:10	Poster session			
	12:10-14:00	Lunch			
Topical session 7 : New development on LSC					
I11	14:00-14:25	Benoit Sabo	Laboratoire	Performance of	Denis

			National Henri Becquerel, France	portable TDCR systems developed at LNE-LNHB	Bergeron
I12	14:25-14:50	Hongbo Ren	Southwest University of Science and Technology, China	Research on the preparation and application of new scintillators	
O21	14:50-15:05	Qianqian Zhou	National Institute of Metrology, China	Development of a portable TDCR system at NIM	
O22	15:05-15:20	Jiri Janda	University of Defence in Brno, Czech	Coprecipitation technique as a new approach of using solid-state scintillation	
O23	15:20-15:35	Erik Rajchl	University of Defence in Brno, Czech	Optimization of composition of water accepting scintillation cocktail	
O24	15:35-15:50	Chavdar Dutsov	Sofia University 'St. Kliment Ohridski', Bulgaria	Significance of the correction for accidental coincidences in liquid scintillation counting measurements	
	15:50-16:20	Coffee break			
Topical session 8 : New development on LSC					
I13	16:20-16:45	Ines Llopart	Belgian Nuclear Research Centre, Belgium	Method for determination of 36Cl and 129I in solid materials coming from decommissioning activities	Steffen Happel
I14	16:45-17:10	Jordi Fons-Castells	University of Barcelona, Spain	DECLAB: A software for liquid scintillation spectra deconvolution	
O25	17:10-17:25	Krasimir Mitev	Sofia University "St. Kliment Ohridski", Bulgaria	Effects of the photocathode non-uniformity on the radon measurements by scintillation counting	
O26	17:25-17:40	Fulong Liu	China Institute of Atomic Energy, China	Development of a Detector to Detect 9.17MeV Gamma Ray	

O27	17:40-17:55	Wenjing Pu	PLA Army Academy of Artillery & Air Defense, China	Aryl group Grafting Polysilane Novel Scintillation Solute for High Efficient and Environment-friendly Scintillator	

conference hall 2

No.	Time (Beijing)	Speaker	Institute	Title	Session Chair
Topical session 6 : LSC in particle detection					
I15	08:00-08:25	Yuka Kato	Hitachi, Ltd. Japan	Rapid and safe method to measure radiostrontium in water samples -improvement of measuring method using a plastic scintillator bottle-	Chao Tian
I16	08:25-08:50	Hongjie Liu	Laser Fusion Research Center, CAEP, China	Liquid Scintillator Neutron Detection System	
O28	08:50-09:05	Yayun Ding	Institute of High Energy Physics, CAS, China	Liquid scintillator for Neutrino experiments such as Daya Bay and JUNO	
O29	09:05-09:20	Sufen Li	Xi'an research institution of high technology, China	The effect of scintillator materials on the fast neutron multiplicity measurement	
O30	09:20-09:35	Mengqing Niu	Xi'an Jiaotong University, China	Trial-production of liquid scintillation fiber array	
	09:35-10:20	Coffee break			
	10:20-12:10	Poster session			
	12:10-14:00	Lunch			

Topical session 9 : Plastic Scintillator and application					
I17	14:00-14:25	Jiri Janda	University of Defence in Brno, Czech	The influence of plastic scintillator dimensions, PMT size, and photocathode geometry on the detection efficiency	Jose F. Garcia
I18	14:25-14:50	Krasimir Mitev	Sofia University "St. Kliment Ohridski", Buglaria	A Plastic Scintillator with enhanced Alpha-/Beta- PSD. Part II: Characterization for Rn-222 measurement	
O31	14:50-15:05	Hector Bagan Navarro	University of Barcelona, Spain	Analysis of plutonium using PSresin	
O32	15:05-15:20	Arnau Coma Garcia	University of Barcelona, Spain	Definition and optimization of a procedure for obtaining crosslinked plastic scintillation microspheres	
O33	15:20-15:35	Isaac Giménez Guerra	University of Barcelona, Spain	PSresin for the analysis of alpha-emitting radionuclides: Comparison of diphosphonic acid-based extractants	
O34	15:35-15:50	Matthieu Hamel	Université Paris Saclay, CEA, France	A Plastic Scintillator with enhanced Alpha-/Beta- PSD. Part I: Rationale and preparation	
	15:50-16:20	Coffee break			
Topical session 10 : Radionuclide Metrology Using LSC					
I19	16:20-16:45	Tomasz Ziemek	National Centre of Nuclear Research Radioisotope Centre POLATOM, Polanc	Standardization of 55Fe solution using the TDCR method in POLATOM as part of the CCRI (II)-K2.Fe-55.2019 key comparison	Alex Taranco n
I20	16:45-17:10	Marcell Peter Takacs	Physikalisch-Technische Bundesanstalt, Germany	Determination of the 213Bi half-life by Cherenkov counting	
O35	17:10-17:25	Tomasz Ziemek	National Centre of	Standardization of 90Y solution by mean of a	

			Nuclear Research Radioisotope Centre POLATOM, Polanc	Cerenkov Counting in comparison with a Liquid Scintillation Counting technique	
O36	17:25-17:40	Renmingjie Li	Sichuan University, China	Radon concentration measurement & radon mitigation in large-scale liquid nitrogen cryogenic system	
O37	17:40-17:55	Justyna Marganiec-Galazka	National Centre for Nuclear Research Radioisotope Centre POLATOM, Poland	Standardization of 177Lu by means of 4π(LS)β-γ coincidence counting	

conference hall 1

No.	Time (Beijing)	Speaker	Institute	Title	Session Chair
Closing Ceremony					
1	18:10-18:20	Cangtao Zhou	Shenzhen Technology University, China	Conference conclusion	Xiaolin Hou
2	18:20-18:30	Pillip Warwick	Southampton University, UK	Introduction of LSC 2024	

Poster

No.	Reporter	Institute	Title
P01	Siegurd Möbius	German Society for Liquid Scintillation DGFS, Germany	20 Years DGFS Society for Liquid Scintillation - New Developments
P02	Amos Vincent Ntarisa	Department of Physics, Kyungpook National University, Poland	A method for detection for all three naturally occurring radon
P03	ATSUSHI SATO	Tohoku University, Japan	High-energy X-ray detection characteristics of HfxSi1−xO2 particle-loaded PVK-based plastic scintillators synthesized by sol–gel method
P04	Alex Tarancón Sanz	Universitat Politècnica de València, Spain	Radiostrontium determination in aerosol filters and vegetation in emergency situations using PS resin
P05	Ryuta Hazama	Osaka Sangyo University, Japan	Nationwide survey of Tritium concentration in environmental water in Thailand
P06	Tomasz Ziemek	National Centre of Nuclear Research, Radioisotope Centre POLATOM, Poland	Analysis of a home-made code used in calculation of the efficiency TDCR system as part of the CCRI(II)-K2.Fe55.2019 key comparison
P07	Fei Chen	National Center for Occupational Safety and Health, NHC, China	Method for the analysis of 14C in urine
P08	YOO JUNG BO	Radioactive Waste Chemical Analysis Center, KAERI, Korea	Determination of 32P Liquid Scintillation counting for RI wastes
P09	Li Bao	China Institute for Radiation Protection, China	Direct sample preparation method of carbon -14
P10	Ping Xu	University of Science and Technology of China, China	Study on Determination of 90Sr in Different Matrix via LSC
P11	Akito Watanabe	Tohoku University, Japan	Fabrication of liquid scintillators loaded with 6-phenylhexanoic acid-modified ZrO2 nanoparticles for observing neutrinoless double beta decay
P12	Zhongzhu Jiang	Institute of Solid State Physics, Hefei Institutes of Physics Science, CAS,	undetermined

		China	
P13	Zifeng Song	Laser Fusion Research Center, CAEP, China	The fast plastic scintillator used for neutron spectrum diagnostic in inertial confinement fusion experiments
P14	Pinyang Liu	Laser Fusion Research Center, CAEP, China	Ultrafast plastic scintillation detector for neutron bang time detection in inertial confinement fusion
P15	Yanqin Ji	National Institute for Radiological Protection, China CDC, China	Simultaneous determination of ^{210}Pb and ^{210}Po in seafood samples using liquid scintillation counting
P16	Chao Fan	Southwest University of Science and Technology, China	Preparation and performance of a new type liquid scintillator