

Agenda First Tritium School

25th-28th March 2019

Main Lecture Hall, Jozef Stefan Institute

Monday 25.03.2019 ; Topic : Tritium management and detection

8:30-10:00	Registration		
Topic : Tritium management and detection		Chair :	
10:00-10:50	Different Detection Techniques For Tritium Inventory	Pascal Fichet (CEA, France)	50 min (L1)
10:50-11:40	Reducing Releases from Tritium Facilities	W Shmayda (Univ. Rochester, US)	50 min (L2)
11:40-12:30	Tritium management in DEMO Breeding Blanket	Ion Cristescu (KIT, Germany)	50 min (L3)
12:30-14:30	Lunch		
Topic : Tritium migration, management		Chair :	
14:40-15:30	Tritium migration in Breeding Blankets in fusion technology	Carlos Moreno (CIEMAT, Spain)	50 min (L4)
15:30-16:05	Numerical Investigation of the tritium removal rate and efficiency of an yttrium pebble bed in contact with tritium loaded flowing liquid lithium	Sebastian Hendricks (CIEMAT, Spain)	35 min (O1)
16:05-16:30	Coffee break		
16:30-17:05	Lithium enrichment needs for fusion and fission applications	Katharina Battes (KIT, Germany)	35 min (O2)
17:05-17:40	Feedback and perspectives issued from the OBT WG inter-laboratory exercises	Nicolas Baglan (CEA, France)	35 min (O3)
17:40-18:30	Discussion on tritium detection migration, management		



Tuesday 26.3.2019

Topic : Tritium inventory and control		Chair :	
9.00-9:50	Hydrogen Isotope Retention And Transport In Neutron-Irradiated Tungsten	Yuji Hatano (Toyama University, Japan)	50 min (L5)
9:50-10:40	Modelling of tritium inventory in plasma facing component in fusion devices	Klaus Schmid (IPP, Germany)	50 min (L6)
10:40-11:00	Coffee break		
11:00-11:50	<i>Tritiated dust in Tokamak</i>	Christian Grisolia (CEA, France)	50 min (L7)
11:50-12:25	Analysis of fuel retention in plasma-facing components. Experience from D-T operation of JET with carbon walls, current approach and preparation for next campaigns	Marek Rubel (KTH, Sweden)	35 min (O4)
12:25-14:30	Lunch		
Topic : Tritium inventory and control		Chair :	
14:30-15:05	Measurement of tritium on W divertor tiles used in JET-ITER like wall campaigns using imaging plate and β -ray induced x-ray spectrometry	Sun Eui Lee (Toyama University, Japan)	35 min (O5)
15:05-15:30	Activities At The University Of Latvia For Tritium Measurements From Functional And Plasma Facing Materials	Liga Avotina (University Latvia, Latvia)	25 min (C1)
15:30-15:50	Coffee break		
15:50-16:25	Permeation measurements using a getter layer and ion-beam based detection	Thomas Schwarz-Selinger (IPP, Germany)	35 min (O6)
16:25-16:50	Steady State and Dynamic Simulation of the Storage and Delivery System during Burn and Dwell Operation of the Tokamak	Jae-Uk Lee (NFRI Korea)	25 min (C2)
16:50-17:25	JSI Fusion for Energy (F4E) Activities Involving Tritium Measurements	Ivan Kodeli (JSI, Slovenia)	35 min (O7)
17:25-18:00	Learnings from dismantling an obsolete tritium installation and decommissioning tritium laboratories	Kris Dylst (SCK CEN, Belgium)	35 min (O8)
18:00-18:30	Discussion on Tritium inventory and control		



Wednesday 27.3.2019

Topic : Radiotoxicity/ecotoxicity		Chair :	
9.00-9:50	Overview Of Tritium Effect	Laurence Lebaron-Jacobs (CEA, France)	50 min (L8)
9:50-10:40	Assessing ecotoxicological impact of tritium	Awadhesh Jha (Plymouth, UK)	50 min (L9)
10:40-11:00	Coffee break		
11:00-11:50	Epidemiology Of Tritium	Richard Wakeford (University Manchester, UK)	50 min (L10)
11:50-12:25	Tritiated And Non Tritiated Iter-Like Tungsten Particles In Lung-derived Cells: An Epigenotoxic Study	Chiara Uboldi (CEA, France)	35 min (O9)
12:25-14:30	Lunch Break		
Topic : Radiotoxicity/ecotoxicity		Chair :	
14:30-15:20	Biokinetics of low levels of tritium as HTO or OBT and its genotoxicity relative to gamma-radiation in a laboratory mouse model	Dmitry Klovov (CNL, Canada)	50 min (L11)
15:20-15:40	<i>Coffe break</i>		
Topic: Tritium dosimetry		Chair :	
15:40-16:30	Dosimetry of tritium in humans and non-human biota	Francois Paquet (IRSN, France)	50 min (L12)
16:30-17:20	Tritium Dosimetry: Modelling Approaches At The Sub-Cellular Scale	Giorgio Baiocco (UNIPV, Italy)	50 min (L13)
17:20-17:45	Determination of Radiological Parameters (H-3) of Drinking Water in Poland in 2010-2015	Agnieszka Fulara (CLOR, Poland)	25 min (C4)
17:45-17:10	Uncertainty Of Internal Dose Estimation From Tritium Exposure	Anna Pantya (Energia, Hungary)	25 min (C5)
18:10-18:40	Discussion on Radiotoxicity/ecotoxicity/dosimetry		
20:00 -	Tritium School Dinner – Ljubljana city center Details will be announced soon		



Thursday, 28.3.2019

Topic : Tritium Waste		Chair	
9.00-9:50	Tritiated Waste research programme	Robert Vale (UKAEA, UK) 50 min	50 min (L14)
9:50-10:40	Tritiated waste management (a French approach)	Karine Liger (CEA, France)	50 min (L15)
10:40-11:00	Coffee break		
11:00-11:50	UK approach to tritiated waste processing and disposal	Dave Coombs (UKAEA, UK)	50 min (L16)
11:50-12:25	H-3 Advanced Technology Centre	Damian Brennan (UKAEA, UK) 35 min	35 min (L17)
12:25-14:30	Lunch - Adjourn		
14:30-15:00	General discussion – lab tour Accelerator		

L-Lecture 40 + 10 min; O-Oral 30+5 min ; C – Contributed 20+5 min

