

## Agenda First Tritium School

**25th-28th March 2019**

**Main Lecture Hall, Jožef Stefan Institute**

Monday 25.03.2019

8:30-9:50	Registration		
9:50-10:00	Welcome – Christian Grisolia (CEA)- TRANSAT coordinator		
Topic : Tritium management and detection		Chair : Christian Grisolia CEA	
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	Walter Shmayda (Univ. Rochester, US)	50 min (L2)
11:40-12:30	Tritium management in DEMO Breeding Blanket	Ion Cristescu (KIT, Germany)	50 min (L3)
12:30-14:45	Lunch – Opening of Institute open days at 13:00		135 min
Topic : Tritium migration, management		Chair : Ion Cristescu KIT	
14:45-15:35	Tritium migration in Breeding Blankets in fusion technology	Carlos Moreno (CIEMAT, Spain)	50 min (L4)
15:35-16:10	Lithium enrichment needs for fusion and fission applications	Katharina Battes (KIT, Germany)	35 min (O1)
16:10-16:30	Coffee break		20 min
16:30-17:05	Feedback and perspectives issued from the OBT WG inter-laboratory exercises	Nicolas Baglan (CEA, France)	35 min (O2)
17:05-17:40	Numerical and experimental investigation of yttrium metal as a getter material for the hydrogen hot trap of IFMIF/DONES	Sebastian Hendricks (CIEMAT, Spain)	35 min (O2)
17:40-18:10	Discussion on tritium detection migration, management		30min



Tuesday 26.3.2019

Topic : Tritium inventory and control		Chair : Sabina Markelj JSI	
8:30-9:20	Hydrogen Isotope Retention And Transport In Neutron-Irradiated Tungsten	Yuji Hatano (Toyama University, Japan)	50 min (L5)
9:20-10:10	Modelling of tritium inventory in plasma facing component in fusion devices	Klaus Schmid (IPP, Germany)	50 min (L6)
10:10-10:25	Coffee break		15 min
10:25-11:15	<i>Tritiated dust in Tokamak</i>	Christian Grisolia (CEA, France)	50 min (L7)
11:15-11:50	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 (O3)
11:50-14:45	Lunch – Lecture – Institute open days at 13:30		175 min
Topic : Tritium inventory and control		Chair : Pascal Fichet CEA	
14:45-15:20	Measurement of tritium on W divertor tiles used in JET-ITER like wall campaigns using imaging plate and $\beta$ -ray induced x-ray spectrometry	Sun Eui Lee (Toyama University, Japan)	35 min (O4)
15:20-15:45	Activities At The University Of Latvia For Tritium Measurements From Functional And Plasma Facing Materials	Gunta Kizane (University Latvia, Latvia)	25 min (C1)
15:45-16:05	Coffee break		20 min
16:05-16:40	Permeation measurements using a getter layer and ion-beam based detection	Thomas Schwarz-Selinger (IPP, Germany)	35 min (O5)
16:40-17:15	JSI Fusion for Energy (F4E) Activities Involving Tritium Measurements	Ivan Kodeli (JSI, Slovenia)	35 min (O6)
17:15-17:50	Learnings from dismantling an obsolete tritium installation and decommissioning tritium laboratories	Kris Dylst (SCK CEN, Belgium)	35 min (O7)
17:50-18:20	Discussion on Tritium inventory and control		30 min



Wednesday 27.3.2019

Topic : Radiotoxicity/ecotoxicity		Chair : Veronique Malard CEA	
8:30-9:20	Overview Of Tritium Effect	Laurence Lebaron-Jacobs (CEA, France)	50 min (L8)
9:20-10:10	Assessing ecotoxicological impact of tritium	Awadhesh Jha (Plymouth, UK)	50 min (L9)
10:10-10:30	Coffee break		20 min
10:30-11:20	Epidemiology Of Tritium	Richard Wakeford (University Manchester, UK)	50 min (L10)
11:20-11:55	Tritiated And Non Tritiated Iter-Like Tungsten Particles In Lung-derived Cells: An Epigenotoxic Study	Chiara Ubaldi (CEA, France)	35 min (O8)
11:55-12:20	Determination of Radiological Parameters (H-3) of Drinking Water in Poland in 2010-2015	Agnieszka Fulara (CLOR, Poland)	25 min (C2)
12:20-14:20	Lunch Break		120 min
Topic : Radiotoxicity/ecotoxicity		Chair : Awadhesh Jha UK	
14:20-15:10	Biokinetics of low levels of tritium as HTO or OBT and its genotoxicity relative to gamma-radiation in a laboratory mouse model	Dmitry Klokov (CNL, Canada)	50 min (L11)
Topic: Tritium dosimetry		Chair : Awadhesh Jha UK	
15:10-16:00	Dosimetry of tritium in humans and non-human biota	Francois Paquet (IRSN, France)	50 min (L12)
16:00-16:20	Coffee break		20 min
16:20-17:10	Tritium Dosimetry: Modelling Approaches At The Sub-Cellular Scale	Giorgio Baiocco (UNIPV, Italy)	50 min (L13)
17:10-17:35	Uncertainty Of Internal Dose Estimation From Tritium Exposure	Anna Pantya (Energia, Hungary)	25 min (C3)
17:35-18:05	Discussion on Radiotoxicity/ecotoxicity/dosimetry		30 min
20:00 -	Tritium School Dinner – Ljubljana city center – Restaurant Vodnikov hram <a href="https://goo.gl/maps/pLLC91MsFP62">https://goo.gl/maps/pLLC91MsFP62</a>		



Thursday, 28.3.2019

Topic : Tritium Waste		Chair: Karine Liger CEA	
8:30-9:20	Tritiated Waste research programme	Robert Vale (UKAEA, UK)	50 min (L14)
9:20-10:10	Tritiated waste management (a French approach)	Karine Liger (CEA, France)	50 min (L15)
10:10-10:25	Coffee break		15 min
10:25-11:15	UK approach to tritiated waste processing and disposal	Dave Coombs (UKAEA, UK)	50 min (L16)
11:15-11:50	H-3 Advanced Technology Centre	Damian Brennan (UKAEA, UK)	35 min (L17)
11:50-13:00	Lunch - Lecture – Institute open days at 12:00		70 min
13:00-15:00	Adjourn - lab tour Accelerator - optional		

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

