



REVISED Programme

Wednesday, September 6, 2006

09.00 - 10.00	Registration	
10.00 - 10.30	Welcome, opening and introduction NRG	J. van der Laan

Session 1: Progress in the design of Ceramic Breeder Blankets, ITER-TBM and DEMO

Chair: J. van der Laan

max. 25 minutes for lecture, 5 minutes for discussion

10.30 - 11.00	1A	Overview on the EU R&D for ceramic breeder materials for HCPB TBM	G. Dell'Orco
11.00 - 11.30	1B	Current status of design and development of ITER solid breeder test blanket modules in Japan	M. Enoeda
11.30 - 12.00	1C	Progress and status of ITER solid breeder module in China	K. Feng
12.00 - 13.30		Lunch	

Session 2: Out-of-Pile Testing Facilities and Mock-Up Tests for TBM

Chair: G. Dell'Orco

13.30 - 14.00	2A	Pressurizing behavior on ingress of coolant into pebble bed of solid breeder blanket	D. Tsuru
14.00 - 14.30	2B	Thermal expansion of a compressed Li ₂ TiO ₃ pebble bed	H. Tanigawa
14.30 - 15.00	2C	Preparation of HEXCALIBER tests and preliminary thermo mechanical analysis	I. Ricapito
15.00 - 15.30		Break	

Session 3: Irradiation Testing, Tritium Release and Tritium Control

Chair: M. Enoeda

15.30 - 16.00	3A	Effects of water vapor for tritium release behaviour from solid breeder materials	T. Kinjyo
16.00 - 16.30	3B	Effect of surface water on release behavior of bred tritium from Li ₂ TiO ₃	M. Nishikawa
16.30 - 17.00	3C	Effect of water vapor on permeation of hydrogen isotopes through Pd Ag alloy	M. Sasaki
		Adjourn	

Thursday, September 7, 2006

09.00 - 09.30	3D	Possible changes of tritium release process under real HCPB operation conditions	G. Kizane
09.30 - 10.00	3E	Release model of hydrogen isotopes irradiated into ternary Li containing oxides	T. Luo
10.00 - 10.30	3F	In- pile tritium release from Li ₂ TiO ₃ irradiated in EXOTIC 9/1 in the HFR	M.M.W. Peeters
10.30 - 11.00		Break	
11.00 - 11.30	3G	Status of the HICU irradiation	J.B.J. Hegeman
11.30 - 12.00	3H	Preliminary results of the post irradiation dismantling of the Pebble bed assemblies	A.J. Magielsen
12.00 - 13.30		Lunch	

Session 4: Pebble Bed Thermo Mechanics Experiments and Modelling Chair: L. Boccaccini

13.00 - 14.00	4A	Integrated thermo fluid- thermal stress analysis approach for an effective design of ITER TBM	A. Ying
14.00 - 14.30	4B	Application of discrete element method to study mechanical behaviors of ceramic breeder pebble beds	A. Ying
14.30 - 15.00	4C	Thermomechanical modelling of ceramics breeder pebble beds in Fusion Blankets and its application in HELICA mock up	Y. Gan
15.00 - 15.30		Break	
15.30 - 16.00	4D	On the use of the thermomechanical model developed for the Pebble Bed Assembly irradiation for application on other pebble bed mock up tests	J. Fokkens
16.00 - 16.30	4E	Experimental and theoretical characterization of Li ₂ TiO ₃ and Li ₄ SiO ₄ pebbles	D. Aquaro
16.30 - 17.00		Discussion session (or alternative)	
19.00		Workshop dinner	



Friday, September 8, 2006

Session 5: Progress in Ceramic Breeder Material Development and Characterization

Chair: A. Ying

09.00 - 09.30	5A	Reprocessing of Lithium Orthosilicate Pebbles	R. Knitter
09.30 - 10.00	5B	Crystal structure of Non stoichiometric compound $\text{Li}_{2-x}\text{TiO}_{3-y}$ under hydrogen atmosphere	T. Hoshino
10.00 - 10.30	5C	Modelling of Li diffusion behaviour in Li_2O	T. Oda
10.30 - 11.00		Break	
11.00 - 11.30	3I	Influence of irradiation defects on tritium release in neutron irradiated ternary lithium oxides	Y. Oya
11.30 - 12.30		Summary & closure	
12.30 - 14.00		Lunch	
14.00 - 16.30		Lab Visits	
14.00 - 16.30		IEA Sessions	
17.00		Busses leave for Alkmaar railway station	

max. 25 minutes for lecture, 5 minutes for discussion