# Schedule of the 4<sup>th</sup> Japan-China Workshop

Wodpo	Wednesday, May 9				
9:00 9:40	Workshop registration				
9.40	Session 1: Opening of workshop Welcoming address - Masao Matsuyama, Director of Hydrogen Isotope Research Center, Univ. of To				
	Session 2: Invited talk, (Masao Matsuyama / Kaiming Feng )				
9:50	2-1 Overview of tritium activities in Japan				
0.00	Kenji Okuno (Shizuoka Univ.)				
10:20	2-2 Progress of tritium science and technology in China				
	Shuming Peng (CAEP)				
10:50	Coffee break				
	Session 3: Permeation - Absorption - Diffusion ( Ralf-Dieter Penzhorn / Shuming Peng )				
11:10	3-1 Experimental and computational studies on tritium permeation mechanism in nanostructured				
	ceramic thin films				
	Wei Mao (The Univ. of Tokyo)				
11:30	3-2 Solubility of hydrogen isotope in zirconia ceramics				
	Kenichi Hashizume (Kyushu Univ.)				
11:50	3-3 Behavior of implanted hydrogen in metals examined by depth profiling with a tritium imaging plate				
	technique				
12:10	Teppei Otsuka (Kyushu Univ.) Lunch break				
12.10	Session 4: Analysis and Storage ( Yuji Hatano / Heyi Wang )				
13:10	4-1 Tritium distribution in nickel and vanadium with a combined technique of an imaging plate and thin				
10.10	absorbers				
	Hiroko Yoshida-Ohuchi (Tohoku Univ.)				
13:30	4-2 Thermal desorption behavior research for <sup>3</sup> He in titanium tritide films				
	Xiaosong Zhou (CAEP)				
13:50	4-3 Hydrogen storage properties of nano Mg-Ni alloy prepared by mechanical ball milling				
	Yifu Xiong (CAEP)				
14:10	4-4 The effect of surface state on the kinetics of scandium-deuteride formation				
	Xiao-qiu Ye (CAEP)				
14:30	Coffee break				
44.50	Session 5: PSI (Yuji Yamauchi / Sei-Hun Yun)				
14:50	5-1 Trapping of tritium by stainless steel exposed to plasmas in experimental campaigns of LHD				
15:10	Masao Matsuyama (Univ. of Toyama)  5-2 Implantation energy dependence on deuterium recycling and retention behaviors for the carbon				
15.10	implanted tungsten				
	Yasuhisa Oya (Shizuoka Univ.)				
15:30	5-3 Observation of the hydrogen distribution on tungsten surface exposed with D plasma				
10.00	Kanetsugu Isobe (JAEA)				
15:50	5-4 Study on the plasma-surface interaction in tungsten by EXPRESS				
	Ryo Miura (Shizuoka Univ.)				
16:10	5-5 Hydrogen incorporation into tungsten deposits growing under hydrogen and argon mixed plasma				
	Kazunari Katayama (Kyushu Univ.)				
16:30	5-6 Simulation tritium retention in tungsten with a multiple trap model in the TMAP code				
10	B. J. Merrill (INL)				
16:50	5-7 Tritium behavior in annealed neutron-irradiated tungsten				
47.00	Masashi Shimada (INL)				
17:20	Photography of group photo and transfer to banquet hall				
18:00	Banquet				

Session 6: ITER TBM and SDS (B.J. Mertill / Kenji Okuno ) 6-1 Current Status of Chinese Solid Tritium Breeder TBM Kaiming Feng (SWIP) 9-20 6-2 Recent progress of tritium relevant research for fusion energy in China Institute of Atomic Energy (CIAE) 10:00 6-3 Current Status of Japanese Water Cooled Solid Breeder TBM Takanori Hirose (JAEA) 10:20 6-4 The R&D Status of ITER SDS Sei-Hiru Yuu (NFRI) 10:40 Office breuk Session 7: Decontamination and Separation (Tukayuki Abe / Xiaojun Chen ) 11:00 7-1 Study on deuterium removal by inert gas discharge cleanings Yuji Yamachi (Hokkaido Linix) 11:20 7-2 Effect of alloying of hydrophobic Pt-Fe catalysts on catalytic activities for liquid phase catalytic exchange reaction Sheng Hu (CAEP) 11:40 7-3 The development of Ni group catalysis for methane decomposition Heyi Wang (CAEP) 12:20 7-4 Hydrogen-deutenium exchange properties of methane on supported Ni catalyst Jingwen Ba (CAEP) 12:20 7-5 Numerical Simulation of Detritiation System Kenzo Munakaia (Akita Univ.) 12-40 Lunch break 13:40 - Overview of Fliber-tritium research for fission or fusion reactors Saroshi Fukada (Kyushu Univ.) 14:00 8-2 Ceramic breeder materials development: status and perspective Xiaojun Chen (CAEP) 14:20 8-8 Removal of deuterium from lithium titanate by sweep gas exposure Yiji Nobaua (Hokkaido Linix.) 15:00 8-7 Study on Li mass loss from Li <sub>2</sub> TiO <sub>3</sub> Hitheaki Kashimura (Kyushu Linix.) 15:00 8-7 Study on Li mass loss from Li <sub>2</sub> TiO <sub>3</sub> Hitheaki Kashimura (Kyushu Linix.) 15:00 9-8 Study on Li mass loss from Li <sub>2</sub> TiO <sub>3</sub> Hitheaki Kashimura (Kyushu Linix.) 16:00 9-1 Fabrication of Li <sub>2</sub> SiO <sub>4</sub> pebble be produced from lithium hydroxide Xiaojing Cao (CAEP) 17:00 9-1 Pabrication of Li <sub>2</sub> SiO <sub>4</sub> pebble be produced from lithium hydroxide Xiaojing Cao (CAEP) 16:20 9-2 Experimental measurements of the effective thermal conductivity of Li <sub>4</sub> SiO <sub>4</sub> pebble bed Hochangshui (CAED) 17:20 9-5 Oxidation resistance of Be <sub>12</sub> Ti fabricated by plasma-sintering method Kohei Widd (Akita Univ.)	Thurso	lay, N	May 10	
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<ul> <li>8-7 Study of release behavior of hydrogen isotopes thermally absorbed in Li<sub>2</sub>TiO<sub>3</sub> porous pellet Deqiong Zhu (The Univ. of Tokyo)</li> <li>15:40 Coffee break</li> <li>Session 9: Breeding 2 (Masanori Hara / Hongguang Yang)</li> <li>16:00 9-1 Fabrication of Li<sub>4</sub>SiO<sub>4</sub> pebbles produced from lithium hydroxide Xiaoling Gao (CAEP)</li> <li>16:20 9-2 Experimental measurements of the effective thermal conductivity of Li<sub>4</sub>SiO<sub>4</sub> pebble bed Yongjin Feng (SWIP)</li> <li>16:40 9-3 Improvement of tritium release from Li<sub>4</sub>SiO<sub>4</sub> ceramic pebble deposited with catalytic metals Chengjian Xiao (CAEP)</li> <li>17:00 9-4 Properties of Li<sub>4</sub>SiO<sub>4</sub> pebble by extrusion-spheronisation- sintering and its measurements of the thermal effective thermal conductivity of pebble bed He Changshui (CIAE)</li> <li>17:20 9-5 Oxidation resistance of Be<sub>12</sub>Ti fabricated by plasma-sintering method Kohei Wada (Akita Univ.)</li> </ul>	15:00	8-5	· · · · · · · · · · · · · · · · · · ·	
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<ul> <li>16:20 9-2 Experimental measurements of the effective thermal conductivity of Li<sub>4</sub>SiO<sub>4</sub> pebble bed Yongjin Feng (SWIP)</li> <li>16:40 9-3 Improvement of tritium release from Li<sub>4</sub>SiO<sub>4</sub> ceramic pebble deposited with catalytic metals Chengjian Xiao (CAEP)</li> <li>17:00 9-4 Properties of Li<sub>4</sub>SiO<sub>4</sub> pebble by extrusion-spheronisation- sintering and its measurements of the thermal effective thermal conductivity of pebble bed He Changshui (CIAE)</li> <li>17:20 9-5 Oxidation resistance of Be<sub>12</sub>Ti fabricated by plasma-sintering method Kohei Wada (Akita Univ.)</li> </ul>				
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17:00 Properties of Li <sub>4</sub> SiO <sub>4</sub> pebble by extrusion-spheronisation- sintering and its measurements of the thermal effective thermal conductivity of pebble bed  He Changshui (CIAE)  9-5 Oxidation resistance of Be <sub>12</sub> Ti fabricated by plasma-sintering method  Kohei Wada (Akita Univ.)	16.10	0.2		
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Kohei Wada (Akita Univ.)			He Changshui (CIAE)	
Kohei Wada (Akita Univ.)	17:20	9-5	Oxidation resistance of Be <sub>12</sub> Ti fabricated by plasma-sintering method	
17:40 Closing				
	17:40	Closi	ing	

Friday, May 11 Excursion (Bus tour to Tateyama with lunch)				
8:30	Daiichi Hotel			
10:30	Tateyama			
12:00	Lunch			
14:30	Toyama Station			
15:00	APA VILLA HOTEL			

# **Attention**

## Presentation

Speakers are needed to use the laptop and LCD projector systems at the conference room. Although the local committee will prepare the laptop with Microsoft PowerPoint 2007(R) (Japanese), please bring your own laptop.

#### Macintosh user

If you are a Macintosh user, please bring your computer and the adopter.

## LAN

There is no LAN access point in conference room and TOYAMA KENMINKAIKAN. Therefore, wireless or wired LAN is not available for presentations. If you plan to show websites or other online resources, please download them onto your laptop and test their functionality before your presentation.

# **Xcursion**

Average temperature at Tateyama-Yuki-no-Ohtani in May is four degrees centigrade. Equip against the cold.