§1. The 5th Japan-Korea Seminar on Advanced Diagnostics for Steady-State Fusion Plasmas

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The 5th Japan-Korea Seminar on Advanced Diagnostics for Steady-State Fusion Plasmas has been held at Kyushu University and the Kuju Joint Training Center for National Universities in Kyushu Area, from Aug. 26 to Aug. 29, 2010. The seminar was planned as series of an educational program on plasma and fusion research for graduate students and young researchers in Japan and Korea. The program includes 15 lectures by senior staffs and 30 poster presentations by young students/researchers. Short pre-poster sessions (3 minutes for each) were held to give them a chance for oral presentation in English. The lectures were on reviews of large fusion device experiments (QUEST, KSTAR and LHD) and on several key diagnostics that will play essential role in future long pulse or steady state fusion plasma experiments. Eight lecturers are from Japan, five from Korea and two from foreign countries (USA and EU/Netherlands). Topics and lecturers were selected under mail discussions with Prof. H. Park, a Korean side secretary of the seminar. Lecturers were asked to prepare and send their lecture notes to the conference secretariat before the seminar start. The copies of lecture notes were delivered to all participants at the beginning of the seminar so that the participants can concentrate to listen to the lectures. The notes will be useful especially for graduate students for future studies. An optional Video lecture by Prof. Donne was given on the morning session of the last day, which was an introductory guide to fusion research for undergraduate level students. The poster sessions were divided into two, one is for Korean presenters and the other was for Japanese presenters. Such arrangement was adopted so that students from both countries could listen and ask to students in other countries. The program is shown below.

The total number of participants was 55, and 2/3 of them were young researchers including graduate students and post-doctoral fellows. Japanese participants were 33, which includes 8 lecturers and 17 young students/researchers who presented posters. Korean participants were 19, which include 4 lecturers (five lectures) and 13 poster presenters. The Kuju Training Center is located in a mountain area and is isolated from resort facilities. Most of the participants stay in share-rooms with Tatami. Such dormitory situation encouraged discussion and communication among participants, especially for young students. There was little barrier even between lecturers and students/young researchers.

The seminar series will be continued. The next seminar will be held two years later at Hanyang University in Seoul, Korea.

Program:

August 26th		
12:20 – 12:50	Registration (at Chikushi Campus)	
12:50	Opening	A. Mase(JP)
13:00 – 13:35	QUEST Status	H. Zushi (JP)
13:35 – 14:00	Tour to QUEST	
14:00 – 14:15	Coffee Break	
14:15 –	Bus to Kuju Center	
17:30 – 18:30	Dinner	
19:00 – 19:35	KSTAR Status	S. H. Hong (KO)
19:35 – 20:10	LHD Status	T. Mutoh (JP)
20:10 – 20:20	Orientation	H. Iguchi (JP)
August 27th		
08:30 – 09:05	Thomson Scattering	N Luhmann Jr. (USA)
09:05 – 09:40	Microwave Reflectometry	A. Mase (JP)
09:40 – 10:15	Interferometry and Polarimetry	K. Kawahata (JP)
	Coffee Break	
10:30 – 11:05	ECE Imaging and MHD Physics	H. K. Park (KO)
11:05 – 11:40	Image reconstruction and Data Acqusition	Y. Nagayama (JP)
11:40 – 12:15	Mach Probes	K. S. Chung (KO)
	Lunch	
13:15 - 13:50	X-ray Imaging Cristal Spectrometer	S. G. Lee (KO)
13:50 – 14:25	Charge Exchange Spectroscopy	K. Ida (JP)
14:25 - 15:00	In-Vessel Fusion Device	S. H. Hong (KO)
15:50 – 15:35	Bolometry	B. Perterson (JP)
	Coffee Break	
15:50 - 17:15	Pre-Poster I (Korean Participants)	
17:30 – 18:30	Dinner	
18:30 – 20:30	Poster Presentation I	
August 28th		
08:30 – 09:40	Pre-Poster II (Japanese Participants)	
	Coffee Break	
09:55 – 11:55	Poster Presentation II	
	Lunch	
13:00 –	Excursion to Mt. Aso	
17:00 – 20:30	Banquet	
20:30 –	Back to Kuju Center	
August 29th		
08:20 – 09:00	Video lecture	T. Donne (EU)
09:00 – 09:30	Fusion Products	M. Sasao (JP)
09:30 – 10:10	Burning Plasma	T. Donne (EU)
10:10 – 10:20	Closing	A. Mase/H. Park
10:30 –	Bus to Fukuoka	