

5th International Workshop on Plasma Material Interaction Facilities for Fusion Research (PMIF 2015)

**Wednesday,
7th of October 2015**

8:15				<i>Pick up of participants at Stadthotel Juelich</i>	
8:30	8:45	00:15		<i>Arrival of participants at IEK-4</i>	
8:45	9:00	00:15		Welcome	Linsmeier/ Unterberg
			session I -Status of existing and planned PMI facilities		Chair: J. Rapp
9:00	9:30	00:30	I-1	The role of plasma-material interaction facilities for PMI research in view of ITER operation	G. De Temmerman
9:30	9:55	00:25	I-2	Development and design of the Material Plasma Exposure Experiment MPEX	J. Rapp
9:55	10:20	00:25	I-3	Present Status of Compact Divertor Plasma Simulator (CPDS) for PMI Study on Neutron-irradiated Material	N. Ohno
10:20	10:45	00:25	I-4	Status and prospective of DIFFER's plasma-surface interactions facilities	H.J.N. van Eck
10:45	11:10	00:25	I-5	Recent results of divertor simulation experiments in the GAMMA 10/PDX tandem mirror	Y. Nakashima
11:10	11:30	00:20		<i>coffee break</i>	
11:30	11:50	00:25	I-6	Status and recent research at the neutral beam facility GLADIS	H. Maier
11:55	12:20	00:25	I-7	Plasma production with ion and electron heating on Proto-MPEX	R.H. Goulding
12:20	12:45	00:25	I-8	steady-state arc-discharge plasma generator	V. Davydenko
12:45	14:10	01:25		<i>lunch break</i>	
14:10	14:35	00:25	I-9	Studies of the plasma source for PMI studies	A. Ivanov
14:35	15:00	00:25	I-10	Plasma source with plane segmented LaB6 cathode and hollow cathode	V. Davydenko

15:00	15:25	00:25	I-11	Status of the JULE-PSI project - a linear plasma device inside a Hot Cell	B. Unterberg	
15:25	16:10	00:45		Discussion session I	J. Rapp	
16:10	16:30	00:20		<i>coffee break</i>		
			session II -Theory and modeling for PMI facilities			Chair: N. Ohno
16:30	16:55	00:25	II-1	Classical transport in linear plasma simulators	V. Kotov	
16:55	17:20	00:25	II-2	Modelling of plasmas containing impurity at arbitrary concentration	M.Z. Tokar	
17:20	17:45	00:25	II-3	Supersonic Plasma Flows in Linear Devices - magnetic Nozzle Effects and Non- Stationarity	D. Reiser	
17:45	18:10	00:25	II-4	ERO modeling of tungsten Erosion experiments in the PSI-2 linear plasma device	A.A. Eksaeva	
18:10	18:35	00:25		Discussion session II	N. Ohno	
19:00				<i>Bus departure to Stadthotel Juelich</i>		

Thursday, 8th of October 2015

8:15				<i>Pick up of participants at Stadthotel Juelich</i>		
8:30	8:45	00:15		<i>Arrival of participants at IEK-4</i>		
			session III- Recent research highlights in PMI facilities			Chair: Y. Nakashima
8:45	9:10	00:25	III-1	Analysis of neutral particle recycling and pumping in detached plasma experiments in the D-module of GAMMA 10/PDX	K. Ichimura	
9:10	9:35	00:25	III-2	Comparison between the D-module plasma of GAMMA 10/PDX and the divertor leg plasma of the Large helical Device based on probe measurements	N. Ezumi	
9:35	10:00	00:25	III-3	Spectroscopy on fast non-Maxwellian atoms in linear plasma	O. Marchuk	
10:00	10:25	00:25	III-4	Overview of recent results from the Magnum-PSI and Pilot-Psi linear plasma devices	T.W. Morgan	

10:25	10:50	00:25	III-5	Helium nano-bubble evolution in tungsten investigated by grazing-incidence small angle x-ray scattering	C.S. Corr	
10:50	11:10	00:20		<i>coffee break</i>		
11:10	11:35	00:25	III-6	Observation of intense tungsten erosion under transient heat load produced by long pulse electron beam	A.A. Kasatov	
11:35	12:00	00:25	III-7	Laser induced desorption study of dynamic retention in tungsten in PSI-2	S. Möller	
12:00	12:25	00:25	III-8	Increase of fuel retention at tungsten PFCs under cyclic heat loads	G. Sergienko	
12:25	12:40	00:15		<i>group photo</i>		
12:40	14:05	01:25		<i>lunch break</i>		
14:05	14:30	00:25	III-9	Deuterium retention in recrystallized and resolidified pure and lanthanum doped tungsten	Y. Yuan	
14:30	14:55	00:25	III-10	Investigation of Thermal and H-particle Exposure on Tungsten	I. Steudel	
14:55	15:20	00:25	III-11	High heat flux and He particle exposure of tungsten	M. Wirtz	
15:20	15:45	00:25	III-12	Recent results on PMI from the PISCES Laboratory	R. Doerner	
15:45	16:10	00:25	III-13	Status of WEST	E. Tsitrone	
16:10	16:30	00:20		<i>coffee break</i>		
16:30	17:15	00:45		Discussion session II	Y. Nakashima	
			session IV - Diagnostics for PMI facilities			Chair: R. Doerner
17:15	17:40	00:25	IV-1	Design of the irradiated target handling system for the Material Plasma Exposure Experiment	V. Varma	
17:15	18:05	00:25	IV-2	Overview of diagnostic implementation on Proto-MPEX at ORNL	T.M. Biewer	
18:05	18:30	00:25	IV-3	Collective Thomson scattering in Pilot - PSI	H.J. van der Meiden	
19:00	21:00			Workshop dinner - casino FZJ		
21:00				<i>Bus departure to Stadthotel Juelich</i>		

Friday, 9th of October 2015

8:15				<i>Pick up of participants at Stadthotel Juelich</i>	
8:30	8:45	00:15		<i>Arrival of participants at IEK-4</i>	
8:45	9:10	00:25	IV-4	Thomson Scattering of Plasma Turbulence at PSI-2	M. Hubeny
9:10	9:35	00:25	IV-5	In-situ mass spectrometry in the linear plasma device PSI-2	A. Kreter
9:35	10:00	00:25	IV-6	Tunnel probe for the igh flux linear plasma generator Pilot-PSI	K. Jesko
10:00	10:25	00:25	IV-7	Status and plans of experiments at scattering station "Plasma" of synchrotron radiation from VEPP-4	A.S. Arakcheev
10:25	10:50	00:25	IV-8	Application of laser ultrasonics for plasma material interaction studies	H.T. Lee
10:50	11:10	00:20		<i>coffee break</i>	
11:10	11:35	00:25	IV-9	Development of a Laser Induced Breakdown Spectroscopy System on PIS-2	X. Jiang
11:35	12:00	00:30		Discussion session IV	R. Doerner
			Overall summary session		
12:00	12:10	00:10		summary session I	J. Rapp
12:10	12:20	00:10		summary session II	N. Ohno
12:20	12:30	00:10		summary session III	Y. Nakashima
12:30	12:40	00:10		summary session IV	R. Doerner
12:40				closure of PMIF 2015	B. Unterberg
12:40	14:15	01:35		<i>lunch break</i>	
tbd					Bus departure to Stadthotel Juelich
tbd					Bus departure to Railwaystation Düren
14:15	16:15	02:00		IEA ExeC meeting	