

# Agenda for EFDA TF-PWI Joint Working Session, Tervaniemi, 04.02.-06.02.2013

## 1. Monday - Plasma Boundary Modelling

Contributions on SOLPS, EDGE2D, SOLEDGE.

Session organiser: M. Groth (mathias.groth@tkk.fi)

10:30-10:40	A. Hakola	Introduction
10:40-11:20	M. Groth	Status of 2-D and 3-D scrape-off layer modelling
11:20-12:00	S. Wiesen	Recent activities on SOLPS4.3/5.3 code development
12:00-14:00		Lunch break
14:00-14:40	H.J. Klingshirn	Extending SOLPS5 simulations up to the first wall / edge and wall code coupling in the ITM
14:40-15:20	H. Bufferand	Up to the wall simulations using penalization technique and extended grids with the plasma fluid code SolEdge2D
15:20-15:50		Coffee break
15:50-16:30	F. Reimold	SOLPS simulations of AUG N2 seeded H-mode plasmas
16:30-17:10	A. Järvinen	Simulations of JET D2 fuelled and N2 seeded H-mode plasmas
17:10-17:30		Discussion
17:30-20:00		Sauna & ice-water swimming / cross-country skiing
20:00		Dinner

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## 2. Tuesday - Integrated Plasma-Wall Simulations

Contributions on ERO-3DGAPS, DIVIMP-WALLDYN, ASCOT.

Session organiser: K. Krieger (krieger@ipp.mpg.de)

08:50-09:30	K. Schmid	Application of WALLDYN for the assessment of ITER wall life-time and fuel retention
09:30-10:10	K. Krieger	Validation of WALLDYN by the initial JET ILW Be migration experiment
10:10-10:40		Coffee break
10:40-11:20	J. Miettunen	Applications of ASCOT for plasma-surface interaction studies
11:20-12:00	D. Borodin	Modelling 3D erosion/deposition distribution at main chamber limiters of JET and ITER and other recent activities involving ERO code and 3DGAPS
12:00-14:00		Lunch Break
14:00-14:40	M. Airila	Analysis and interpretation of JET C&Be migration experiments using ERO
14:40-15:00		Discussion

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## 3. Tuesday - Modelling of Metal PFM Surface Processes

Contributions on MD codes.

Session organiser: M. Airila (markus.airila@vtt.fi)

15:00-15:40	C. Björkas	Simulations of BeD sputtering from Be and BeW surfaces
15:40-16:10		Coffee break
16:10-16:50	A. Meinander	The effect of hydrocarbon chemistry on sputtering of mixed Be-C-D materials
16:50-17:30	A. Lasa	W fuzz formation under He irradiation: a multi-scale approach
17:30-17:50		Discussion
19:30		Dinner

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#### 4. Wednesday - Modelling of Fuel Retention/Release in Metal Devices

Contributions on first principle DFT modelling and modelling of diffusion/trapping processes.

Session organiser: K. Schmid (klaus.schmid@ipp.mpg.de)

09:10-09:45	A. Allouche	H in beryllium-based materials, a quantum DFT approach
09:45-10:15		Coffee break
10:15-10:30	Y. Ferro	Checking the accuracy of DFT results regarding the W/H interaction
10:30-11:05	T. Ahlgren	Vacancy formation and migration in tungsten at supersaturation of hydrogen
11:05-11:40	K. Schmid	Reaction rate modeling of isotope exchange in W
11:40-12:00		Discussion
12:00-13:30		Lunch
13:30		Departure to airport

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