

# Agenda for Tervaniemi Joint Working Session, 31.01.-02.02.2011

## 1. Marker experiments ( $^{13}\text{C}$ injection, smart tiles)

Contributions e.g. on the interpretation of marker experiments with the available codes and the use of these experiments for benchmarking models (SOLPS, DIVIMP, EDGE2D, ERO, ASCOT).

Chair: Sebastijan Brezinsek (s.brezinsek@fz-juelich.de)

10:30-10:40	S. Brezinsek	Introduction
10:40-11:20	D. Borodin (for A. Kirschner)	Modelling of injection experiments at TEXTOR: enhanced re-erosion of deposits at plasma-wetted areas
11:20-12:00	L. Aho-Mantila	SOLPS and ERO modelling of ASDEX Upgrade $^{13}\text{C}$ local migration experiments
12:00-13:30		Lunch break
13:30-14:00	T. Makkonen	DIVIMP $^{13}\text{C}$ transport and re-deposition modelling for ASDEX Upgrade
14:00-14:20	A. Hakola	Modelling data base of global $^{13}\text{C}$ injection experiments in ASDEX Upgrade
14:20-14:50	M. Airila	ERO modelling of JET $^{13}\text{C}$ migration
14:50-15:10	O. van Hoey	Implementation of neutral sputtering by D in ERO
15:10-15:30		Coffee break
15:30-16:00	D. Matveev	Overview of 3D-GAPS modelling activities for plasma shadowed and remote areas
16:00-16:30		Discussion
16:30-20:00		Sauna & ice-water swimming / cross-country skiing
20:00		Dinner

## 2. Far scrape-off layer transport

Contributions e.g. on far periphery modelling, wall fluxes and extensions of plasma computational grids (different approaches in SOLPS, DIVIMP, EIRENE, EMC3, ASCOT, ...).

Chair: Wojtek Fundamenski (Wojtek.Fundamenski@ccfe.ac.uk)

09:00-09:10	W. Fundamenski	Introduction
09:10-09:50	J. Miettunen	Modelling of impurity transport with ASCOT
09:50-10:10	S. Wiesen	Extension of SOLPS4 grid up to first wall - current status
10:10-10:30		Coffee break
10:30-11:00	K. Krieger (for S. Lisgo)	ITER far periphery modelling
11:00-11:30	P. Tamain	Far SOL modelling and SOL flows
11:30-12:00	V. Naulin	Discussion of wall fluxes, edge turbulence modelling and related TTG activities
12:00-13:30		Lunch Break
13:30-13:50	W. Fundamenski	A dimensionless approach to SOL models
13:50-14:20		Discussion

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### 3. Surface dynamics

Contributions e.g. on modelling of material mixing, surface composition dynamics, layer growth, retention (ERO, WALLDYN). Linking wall models to MD codes.

Chair: Karl Krieger (krieger@ipp.mpg.de)

14:30-14:40	K. Krieger	Introduction
14:40-15:10	D. Borodin	ERO simulations of PSI with Be-C mixed layers
15:10-15:40	M. Airila	Molecular dynamics studies of Be <sub>2</sub> C for the ERO surface model
15:40-16:00		Coffee Break
16:00-16:40	K. Schmid	Implementation and underlying physics of the WALLDYN code
16:40-17:10	M. Reinelt	Benchmarking WALLDYN on material side and in plasma experiments
17:10-18:00		Discussion (incl. short presentation on 2D $I_{\text{sat}}$ and $V_f$ measurements at Pilot-PSI by C. Costin).
18:30		Departure for dinner in Hämeenlinna

## 4. Kinetic Modelling

Contributions on kinetic transport modelling codes, e.g. code-code benchmarking between kinetic codes (DIVIMP, EIRENE-ITM, ASCOT) and fluid codes (SOLPS, EMC3, EDGE2D).

Chair: Markus Airila (Markus.Airila@vtt.fi) / Mathias Groth (mathias.groth@tkk.fi)

09:00-09:10	M. Airila	Introduction
09:10-09:40	J. Seebacher (for M. Groth)	EDGE2D/EIRENE, DIVIMP, and EIRENE-TIM code-code benchmarking for carbon
09:40-10:10	A. Järvinen	DIVIMP tungsten transport modelling for JET
10:10-10:30		CoffeeBreak
10:30-11:00	J. Seebacher	EIRENE-TIM simulations of carbon and tungsten transport in JET
11:00-11:30	M. Wischmeier (for F. Reimolt)	EIRENE-TIM simulations of tungsten transport in AUG
11:30-12:00	T. Makkonen	Comparison of fluid and kinetic models for carbon transport in DIVIMP and ASCOT
12:00-12:30		Discussion
12:30-13:30		Lunch
13:30		Departure to airport

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