

**1st NIFS-CRC International Symposium and 1st Korea-Japan Workshop
on
Edge Plasma and Surface Component Interactions
in Steady State Magnetic Fusion Devices**

Agenda

May 20th

Registration at Oustat Hotel	5:30pm~6:30pm
Welcome Dinner at Oustat Hotel	7:00pm~9:00pm

May 21st

■ Opening session (Chair: M. Sato) 8:30am~8:40am

Opening address-1: O. Motojima (NIFS)

Opening address-2: B. J. Lee (NFRC)

■ Technical session-1: PSI in confinement devices#1 (Chair : G. Mazzitelli)

***“Super Dense Core Ignition Scenario for Helical devices”,* 8:40am~9:20am
N. Ohyabu (NIFS)**

***“Studies of heat and particle loadings under wall saturated* 9:20am~10:00am
condition and influence on PWI in JT-60U”,
N. Asakura (JAEA)**

***“PSI research activities for the steady state operation of EAST* 10:00am ~10:40am
*device”, J. Chen (ASIPP)***

■ Technical session-2: A&M and PSI-diagnostics (Chair: K. S. Chung)

***“Radiation processes of impurities in detached divertor plasmas* 10:40am~11:20am
*of JT-60U”, T. Nakano (JAEA)***

***“Diagnostics of helium recombining plasmas using Thomson* 11:20am~11:40am
scattering and spectroscopy in MAP-II divertor simulator”,
S. Kado (U. Tokyo)**

***“Charge Exchange Processes for Highly Charged Ion-Atom,* 11:40am~12:00pm
*Molecule Collisions”, H. Sakaue (NIFS)***

May 22nd

Lunch break	12:00pm~1:00pm
■ Technical session-3: PSI in confinement devices#2 (Chair : N. Asakura)	
<i>“Experimental results with a liquid lithium poloidal limiter on FTU”, G. Mazzitelli (ENEA)</i>	1:00pm~1:40pm
<i>“Lithium plasma facing components (PFC) in tokamak. Progress and perspectives”, S. Mirnov (TRINITY)</i>	1:40pm~2:20pm
<i>“Multiscale Phenomena of Plasma-Wall Interaction in TRIAM-1M”, M. Sakamoto (Kyushu U.)</i>	2:20pm~3:00pm
<i>“Plasma wall interaction induced oscillations and their effects on the global recycling and metal impurity influx from plasma facing materials in TRIAM-1M”, H. Zushi (Kyushu U.)</i>	3:00pm~3:20pm
Coffee break	3:20pm~3:30pm
■ Technical session-4: PSI exps. in laboratory devices (Chair: H. Zushi)	
<i>“PISCES-B mixed material PSI experiments and their implications for ITER steady state operation”, M. Baldwin(UCSD)</i>	3:30pm~4:10pm
<i>“Multi-Purpose Plasma (MP2) Facility as a Steady State Divertor Simulator”, B. J. Lee (NFRC)</i>	4:10pm~4:30pm
<i>“Honeycomb-like Large Area LaB6 Plasma Source for Multi-Purpose Plasma (MP2) Facility”, T. Lho (NFRC)</i>	4:30pm~4:50pm
<i>“DiPS (Diversified Plasma Simulator): Philosophy, Diagnostics and Plans”, K. S. Chung (Hanyang U.)</i>	4:50pm~5:10pm
<i>“Ion temperature measurement in K2H and SPEX linear propulsion simulators”, H. J. Woo (Hanyang U.)</i>	5:10pm~5:30pm
<i>“Particle control in steady state magnetic fusion reactors by moving-surface plasma-facing components (MS-PFC) - A review of POP experiments on MS-PFCs in Vehicle-1-”, Y. Hirooka (NIFS)</i>	5:30pm~5:50pm
Shuttle bus departure	6:30pm

■ Technical session-5: PSI in confinement devices#3 (Chair: J. Chen)	
<i>“PSI Issues in ITER”, M. Shimada (ITER)</i>	8:40am~9:20am
<i>“Plan and Current Status of Plasma Wall Interaction Study in KSTAR”, S. W. Yoon (NFRC)</i>	9:20am~10:00am
<i>“Design and present status of steady state spherical tokamak, QUEST”, K. Hanada (Kyushu U.)</i>	10:00am~10:20am
<i>“An Experiment on the Concept of Active Recycling Control using Moving Surface Plasma Facing Component”, R. Bhattacharyay (Kyushu U.)</i>	10:20am~10:40am
■ Technical session-6: Materials for PFC (Chair: S. Mirnov)	
<i>“Damage Structure of Tungsten under He Particle Loading”, N. Yoshida (Kyushu U.)</i>	10:40am~11:20am
<i>“Overview of the US ALPS PROGRAM”, M. Baldwin (UCSD)</i>	11:20am~12:00pm
Lunch break	12:00pm~1:00pm
■ Technical session-7: PSI-theories and modeling (Chair: M. Baldwin)	
<i>“Response of Plasma Facing Components to Various Transient Events in Tokamak Devices: Serious Concerns for ITER!”, A. Hassanein (ANL)</i>	1:00pm~1:40pm
<i>“Dynamic Simulation of Erosion and Redeposition on Plasma-Facing Materials,” K. Ohya (Tokushima U.)</i>	1:40pm~2:20pm
<i>“Excitation of atomic hydrogen at metal surfaces promoted by proton motion”, D. Kato (NIFS)</i>	2:20pm~2:40pm
Coffee break	2:40pm~2:50pm
■ Technical session-8: Session summaries (Chair: Y. Hirooka)	
*PSI in confinement devices : M. Shimada	2:50pm~3:30pm

*A&M processes in PSI: S. Kado	3:30pm~3:50pm
*PSI-exps. in laboratory devices: T. Lho	3:50pm~4:10pm
*Materials for PFCs: N. Yoshida	4:10pm~4:30pm
*PSI-theories and modeling: A. Hassanein	4:30pm~4:50pm
*Closing remark: Y. Hirooka	4:50pm~5:00pm
LHD tour	5:00pm~6:30pm
Shuttle bus departure	7:00pm