

**Japan-US Workshop on
Fusion Power Plants and Related Advanced Technologies with participation of EU
February 5-7, 2007 at Kyoto, JAPAN**

Agenda(2007/1/25 version)

Monday, February 5, 2007(Uji Campus)

9:30 – 9:50 K. Yoshikawa : Opening address and topics on land-mines detection

Session 1: Helical Reactor Design and Physics Issues (Chair : Y. Ogawa)

9:50 – 10:30 A. Sagara : optimization Studies on Conceptual Designs of LHD-type Reactor FFHR

10:30 – 11:15 F. Najmabadi : Overview of ARIES-CS Study and the next ARIES study

Coffee break

11:25 – 11:55 O. Mitarai : Fusion Power Rise-up in the Helical Reactor FFHR2m

11:55 – 12:25 T.K. Mau : Physics Study in Support of ARIES-CS

12:25 – 12:55 T. Mizuuchi : Topics from new approaches in plasma confinement experiments in helical systems

Lunch

Session 2: Engineering Design on Helical Reactors (Chair : K. Tobita)

14:00 – 14:30 R. Raffray : Engineering Design and Analysis of the ARIES-CS Power Plant

14:30 – 15:00 S. Abdel-Khalik: Thermal-Hydraulic Studies in Support of the ARIES-CS Divertor Design

15:00 – 15:30 T. Muroga : Feasibility of Flibe/V-alloy Blanket

15:30 – 16:00 S. Fukada : A design for recovery of tritium from Flibe loop in FFHR

16:00 – 16:30 A. Kohyama : Brief review of SiC/SiC material development(tentative)

16:30 – 18:00 Tours to experimental facilities in Uji Campus

19:00 – 21:00 **Welcome Dinner**

Tuesday, February 6, 2007 (Campus Plaza near by Kyoto Station)

Session 3: Tokamak Design Study (Chair : F. Najmabadi)

- 09:30 – 10:00 K. Tobita : Conceptual design of SlimCS and critical design issues
10:00 – 10:30 M. Sato : Current drive system of SlimCS on the basis of current ramp scenario
10:30 – 11:00 Y. Nakamura : Disruption avoidance after NBCD turn-off in fully non-inductive, reversed shear discharge
11:00 – 11:30 S. Nishio : Considerations on maintenance scheme of SlimCS

Lunch

Session 4: PPCS Activities and Divertor and Coil Design in Helical Reactor (Chair : K. Okano)

- 12:45 – 13:15 D. Maisonnier : Overview of the EU DEMO activities and key Engineering Issues for the EU DEMO
13:15 – 14:00 L. Horton : DEMO physics issues and provisional plant parameters for the EU DEMO
14:00 – 14:30 T.K. Mau : Divertor and Alpha Particle Physics Analysis for ARIES-CS
14:30 – 15:00 Y. Igitkhanov : Impurity control in Helical Fusion Reactor
15:00 – 15:30 S. Imagawa : Conceptual design of superconducting magnets of FFHR2m1 with CIC conductors on the engineering base for ITER.
15:30 – 16:00 R. Raffray : ARIES-CS Coil Configuration and Structural Design

Coffee Break

Session 5: Laser Fusion Reactor Design (Chair : R. Raffray)

- 16:15 – 16:45 T. Norimatsu : Critical issue in KOYO-F design
16:45 – 17:00 Y. Ogawa : Overview on Fast-ignition Laser Fusion Reactor with a Dry Wall
17:00 – 17:30 T. Goto : Design of a core plasma and chamber wall for dry wall fast ignition ICF power plant
17:30 – 18:00 R. Hiwatari : Maintenance method for blanket and final optics of dry wall fast ignition ICF power plant

[Dinner : On own initiative]

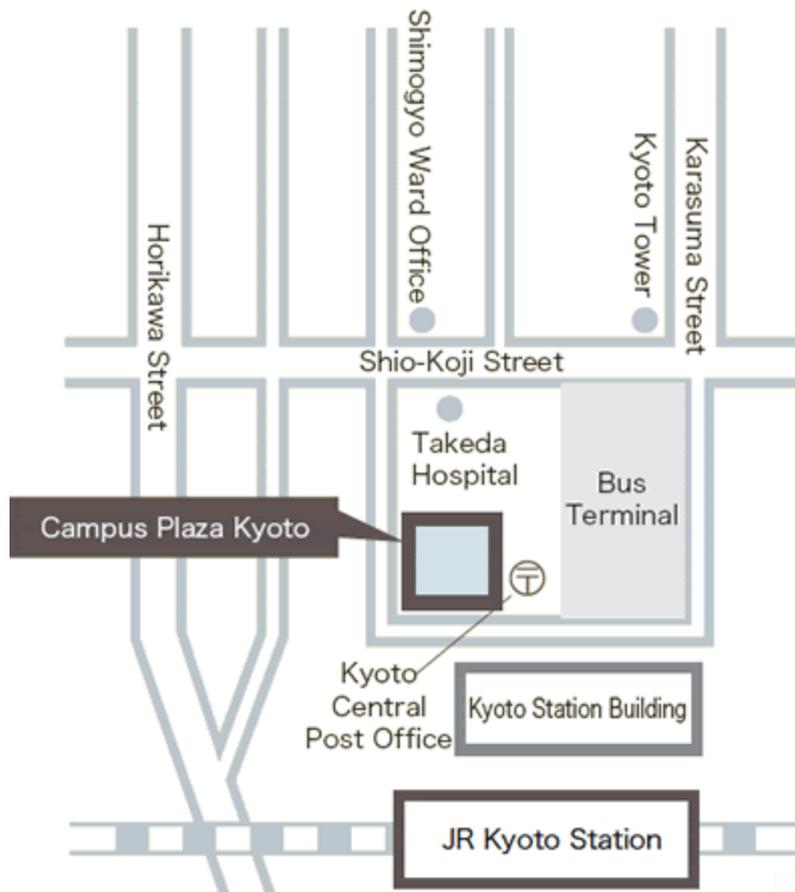
Wednesday, February 7, 2007 (Campus Plaza near by Kyoto Station)

Session 6: Socio-Economics Study (Chair : D. Maisonnier)

- 09:30 – 10:00 K. Kozaki : Comparative Economics Studies on Magnetic Fusion Power Plants
- 10:00 – 10:30 K. Okano : Socio-Economic Study on Future Advanced Energy Technologies (tentative)
- 10:30 – 11:00 Y. Yamamoto : Conceptual design of advanced LiPb-SiC blanket
- 11:00 – 11:30 S. Konishi : Development of LiPb-SiC blanket; Present status and strategy
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- 11:30 – 11:45 Closing Address

Adjourn

The map of Campus Plaza Kyoto



Our meeting place is
“Conference room No.3”.



ADDRESS

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