

**Japan-US Workshop on
Fusion Power Plants and Related Advanced Technologies with participation of EU
January 11-13, 2005 at Tokyo, JAPAN**

Agenda(2004/12/21 version)

Tuesday, January 11, 2005

10:00 - 10:30 Coffee and Socialization

Session : Helical Reactor Study (Chair : Y. Ogawa)

10:30 - 10:45 M. Kikuchi : Opening Address

10:45 – 11:15 A. Sagara : Present activities on LHD-type Reactor Designs FFHR

11:15 – 11:45 S. Imagawa : Study on Supporting Structures of Magnets and Blankets for Heliotron-type Fusion Reactor

11:45 – 12:15 F. Najmabadi : Overview of ARIES Compact Stellarator Power Plant Study and Future Plans

12:15 – 12:45 J. Lyon : Optimization of Stellarator Power Plant Parameters

Lunch

Session : Reactor System Design (Chair : A. Sagara)

13:45 – 14:15 R. Raffray : Engineering Approaches to Compact Stellarator Power Plants

14:15 – 14:45 L.P. Ku : Physics Basis and Configuration Optimization of Stellarator Power Plants

14:45 – 15:15 K. Tobita : Overview of Fusion Reactor Studies at JAERI

15:15 – 15:45 M. Sato : Parameter Selection of Fusion DEMO Plant at JAERI

Coffee break

Session : Tokamak Reactor Study (Chair : F. Najmabadi)

16:00 – 16:30 K. Shinya : Critical Issue on Plasma Equilibrium for CS-Less Tokamaks

16:30 – 17:00 R. Hiwatari : Introduction Condition of a Tokamak Fusion Power Plant as an Advanced Technology in World Energy Scenario

17:00 – 17:30 K. Okano : Conceptual Design of a Demonstration Reactor for Electric Power Generation

17:30 – 18:00 Y. Nakamura : A Fully Non-Inductive Current Ramp-Up and Relevant Issues in CS-Less Tokamak Reactor

[Dinner : On own initiative]

Wednesday, January 12, 2005

Session : PPCS Study in EU (Chair : K. Tobita)

- 09:30 – 09:45 D. Maisonnier : Overview of Reactor Studies in EU
09:45 – 10:15 P. Sardain : Near Term PPCS Models (Models A, B and AB)
10:15 – 10:45 P. Norajitra : Long Term PPCS Models (Models C and D)

Coffee break

Session : Divertor Study and Safety Issues (Chair : R. Raffray)

- 11:00 – 11:30 L. Boccaccini : He-Cooled Divertor Concepts
11:30 – 12:00 Y. Song : Conceptual Design of Liquid Metal Cooled Power Core Components for a Fusion Power Reactor
12:00 – 12:30 N. Taylor : PPCS Safety and Environmental Analysis
12:30 – 13:00 H. Nakamura : In-Vessel Tritium Inventory in Fusion DEMO Plant at JAERI

Lunch

Session : Blanket Design (Chair : D. Maisonnier)

- 14:00 – 14:30 S. Suzuki : Design of Solid Breeder Test Blanket Modules in JAERI
14:30 – 15:00 R. Raffray : Ceramic Solid Breeder Blankets
15:00 – 15:30 S. Konishi : High Temperature Blanket and Its Socio-Economic Issues
15:30 – 16:00 Q. Huang : Neutronics Analysis on an Compact Tokamak Fusion Reactor CREST

Coffee break

Session : IEA-ESE/FP Task Meeting (Chair : F. Najmabadi)

- 16:15 – 17:30 IEA-ESE/FP Task Meeting on Reactor Design
(key note: F. Najmabadi, D. Maisonnier, K. Tobita)

- 18:00-20:00 **WS Dinner at Za-Watami (Ueno)**

Thursday, January 13, 2005

Session : Innovative Concept (Chair : S. Konishi)

- 09:30 – 10:00 S. Nishio : Maintenance Scheme for Post-ITER Power Reactors
10:00 – 10:30 O. Mitarai : D-3He High Aspect Ratio Tokamak Reactor
10:30 – 11:00 Y. Yamamoto : Impact of Fusion Reactor on Electricity Grid

Coffee break

Session : Inertial Fusion Reactor Study (Chair : Y. Ogawa)

- 11:15 – 11:45 K. Kozaki : IFE Roadmap and Power Plant Concept based on Fast Ignition Laser Fusion
11:45 – 12:15 R. Raffray : Overview of the HAPL IFE Dry Wall Chamber Studies in the US
12:15 – 12:30 Closing Address

Adjourn