

Japan-US Workshop on Fusion Power Plants and Related Advanced Technologies with Participation of EU
March 5-7, 2008
UCSD, La Jolla, CA, USA

Agenda

Wednesday March 5, 2007 (Room 584, EBU-II, UCSD)

- 9:00 – 9:15 Coffee and Interaction
9:15 – 9:20 R. Raffray: Welcome and logistics
9:20 – 9:30 F. Najmabadi and Y. Ogawa: Opening addresses

Session: Helical Reactors (Chair: Y. Ogawa)

- 9:30 – 10:05 A. Sagara (presented by Y. Kozaki): Overview of Design Integration toward Optimization of LHD-type Fusion Reactor FFHR
10:05 – 10:40 O.Mitarai: Low Temperature and High Density Ignited Operation in the FFHR Helical Reactor
10:40 – 10:55 **Coffee break**
10:55 – 11:30 Y. Kozaki: Design Windows and Cost Analysis on LHD-type Helical Reactor
11:30 – 12:05 R. Raffray: ARIES-CS Power Plant: Final Engineering Results and Findings
12:05 – 12:40 L. El-Guebaly: Integration of Nuclear, Economics, and Safety Constraints in ARIES-CS Compact Stellerator
12:40 – 13:55 **Lunch**

Session: Path to DEMO and Physics Aspects (Chair: L. Waganer)

- 13:55 – 14:30 K. Tobita: Progress in Design Study on Low Aspect Ratio DEMO, SlimCS
14:30 – 15:05 F. Najmabadi: Overview of the ARIES Next Step study
15:05 – 15:40 M. Tillack: A Methodology for Evaluating Progress toward an Attractive Fusion Energy Source
15:40 – 15:55 **Coffee break**
15:55 – 16:30 G. Kurita: Critical Beta Analyses of Low Aspect Ratio Tokamak
16:30 – 17:05 D. Meade: Burning Plasma Gap between ITER and DEMO

Adjourn

- 18:30 **Welcome Dinner**

Thursday March 6, 2008 (CMRR Auditorium)

9:00 – 9:15 Coffee and Interaction

Session: Path to DEMO and Physics Aspects (Chair: L. Waganer)

9:15 – 9:50 K. Okano: Roadmap to DEMO based on a List of Work Break-down Structure

Session: Power Core Components and Rad-Waste (Chair: K. Tobita)

9:50 – 10:25 L. El-Guebaly: Recent Trend in Managing Fusion Radwaste: Recycling and Clearance, Avoiding Disposal

10:25 – 11:00 Y. Yamamoto: Development of High Temperature LiPb-SiC blanket

11:00 – 11:15 **Coffee Break**

11:15 – 11:50 X. Wang: Thermo-fluid and Thermo-mechanic Analyses of He-Cooled Flat Plate and T-Tube Divertor Concepts

11:50 – 12:40 **Visit of the PISCES Laboratory**

12:40 – 14:00 **Lunch**

Session: Laser Fusion Reactor Design (Chair: M. Tillack)

14:00 – 14:35 T. Norimatsu: Elemental Researches on Liquid Wall of KOYO-F - Aerosols, Beam port, and Cascade flow

14:35 – 15:10 Y. Ogawa: Feasibility Study on the Fast-Ignition Laser Fusion Reactor with a Dry Wall - FALCON-D

15:10 – 15:25 **Coffee Break**

15:25 – 16:15 **Visit of the Laser Laboratory**

Adjourn

Dinner: On own initiative

Friday March 7, 2008 (CMRR Auditorium)

9:00 – 9:15 Coffee and Interaction

Session: Fusion Energy System (Chair: K. Okano)

9:15 – 9:50 S. Konishi: Hydrogen Production from Biomass with Fusion Heat - Its feasibility and Impact

9:50 – 10:25 Z. Dragojlovic: Development of the New ARIES Tokamak System Code

10:25 – 10:45 **Coffee Break**

10:45 – 11:20 R. Hiwatari: Utility Analysis of Future Power Generation Based on the Choice Experiment

11:20 – 11:50 Final Discussion

11:50 – 12:00 Closing Addresses

Adjourn