

**US/Japan Workshop on
Power Plant Studies and Related Advanced Technologies
With EU Participation**

**October 9-11, 2003,
585 EBUII (Engineering Building Unit II),
UC San Diego, La Jolla, CA**

Agenda

Thursday, October 9

8:30 – 9:00	Coffee and Socialization	UCSD Hosts
9:00 – 9:15	Welcome and Opening Remarks	Charles Baker
9:15 – 9:25	Meeting Logistics	Farrokh Najmabadi

Session 1: Inertial Fusion Power Plant Studies (Chairman: Y. Ogawa)

9:25 – 10:10	Overview of ARIES-IFE study	Farrokh Najmabadi
10:10 – 10:55	An Overview of the Fluid Dynamics Aspects of Liquid Protection Schemes for IFE Reactor Chambers	Said Abdel-Khalik
10:55 – 11:15	Break	
11:15– 12:00	Concept and Preliminary Experiment on Protection of Final Optics in Wet-Wall Laser Fusion Reactor	Takayoshi Norimatsu
12:00 – 1:15	Lunch	
1:15 – 2:00	Mechanisms of Aerosol Generation in Liquid-Protected IFE Chambers	Mark Tillack

Session 2: Demo and Advanced Technologies (Chairman: M. Tillack)

2:00 – 2:45	Conceptual Study on a Fusion Power Reactor for Early Demonstration of Electric Power Generation.	Yoshiyuki Asako
2:45 – 3:00	Break	
3:00 – 3:45	Evaluation of Fusion During 21th Century as Primary Energy	Masayasu Sato
3:45 – 5:00	Tour of UCSD Laser/Material Laboratory	
5:00	Adjourn	

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Friday, October 10

8:30 – 9:00 Coffee and Socialization

Session 3: Helical Power Plant Studies (Chairman: L. Waganer)

9:00 – 9:45	Key Issues in LHD-type Reactor FFHR and Present Design Activities	Akio Sagara
9:45 – 10:30	Status of Physics and Configuration Studies of ARIES-CS	Tak-Kuen Mau
10:30 – 10:50	Break	
10:50 – 11:35	System Code Analysis on Plasma Performance in Helical Reactors	Yuichi Ogawa
11:35-12:20	Scoping Studies of Fusion Power Core Engineering and Maintenance Options for ARIES-CS	Rene Raffray
12:20-1:40	Lunch	
1:40 – 2:25	Ignition Characteristics of a D-3He Helical Reactor	Osamu Mitarai

Session 4: Advanced Technologies (Chairman: A. Sagara)

2:25 – 3:10	Achieving High Availability in Tokamak Power Plants	Les Waganer
3:10 – 3:30	Break	
3:30 – 4:15	Materials Development and Design Effort for V/Li Blanket in Japan	Takeo Muroga
4:15 – 5:00	Crack Allowance on the MHD Coating	Dai-Kai Sze
5:00	Adjourn	

6:30 Workshop Dinner (UCSD Hosts)

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Saturday, October 11

8:30 – 9:00 Coffee and Socialization

Session 5: Socioeconomic Studies (Chairman: F. Najmabadi)

9:00 – 9:45	Results of the European Power Plant Conceptual Study	Ian Cook
9:45 – 10:20	Role of Nuclear Fusion in Energy and Environment	Koji Tokimatsu
10:20 – 10:40	Break	
10:40 – 11:20	Current View of the US Energy Strategy and How Fusion May Contribute	Les Waganer
11:20 – 12:00	Results of the European SERF-E Programme, and Update on IEA Task 7	Ian Cook
12:00	Adjourn	