

US-Japan Workshop on
Fusion Power Plants and Related Advanced Technologies
 13-14 March 2014
 University of California San Diego, USA

13 March (Thursday)

Center for Magnetic Recording Research (CMRR) Auditorium

9:00			Socializing
9:30	M. Tillack	UC San Diego	Welcome and logistics

Session I. Power Plant Design

chair: C. Kessel

10:00	F. Najmabadi	UC San Diego	Summary and conclusions from the ARIES ACT studies
10:30	O. Mitarai	Kyushu Tokai U.	Plasma current start-up without central solenoid in STOR-M iron core tokamak and its application to ST reactor
11:00	M. Tillack	UC San Diego	Overview of the ARIES ACT2 power core
11:30	C. Kessel	PPPL	ARIES-ACT four-corners study of tokamak design space
12:00			<i>Break for lunch</i>

Session II. Next-Step Devices and Materials

chair: O. Mitarai

2:00	K. Tobita	JAEA	Concept development of DEMO in Japan
2:30	C. Kessel	PPPL	Introduction to the FNSF study
3:00	K. Okano	Keio Univ.	Demo design activity for the BA collaboration in IFERC
3:30			<i>Coffee Break</i>

chair: K. Okano

4:00	A. Garofalo	GA	Impact of H&CD Technology on DEMO Scenario Choice
4:30	A. Sagara	NIFS	Design of helical reactor FFHR-d1 and c1 for steady state DEMO
5:00	H. Tamura	NIFS	Design study of structural components and issues on maintenance scenario for helical reactor FFHR-d1A
5:30			<i>Adjourn</i>
			[Dinner : On own initiative]

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14 March (Friday)

Room 584 EBU2 (Engineering Building Unit 2)

9:00			Socializing
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Session III. Safety, Blanket and Divertor

chair: M. Tillack

9:30	Y. Ogawa	Univ. of Tokyo	Divertor physics and related safety issues
10:00	S. Konishi	Kyoto Univ.	Implication of Fukushima Event and its Possible Impact on Tritium Release from Fusion Facilities
10:30	Y. Someya	JAEA	Provisional scenario of radioactive waste management for DEMO
11:00			<i>Coffee Break</i>

chair: Y. Ogawa

11:30	S. Konishi	Kyoto Univ.	Impact of ELM and transient heat load on divertors
12:00	R. Kasada	Kyoto Univ.	Dynamic response of fusion reactor materials under electromagnetic force
12:30	F. Najmabadi		Final remarks
12:40			<i>Adjourn meeting</i>