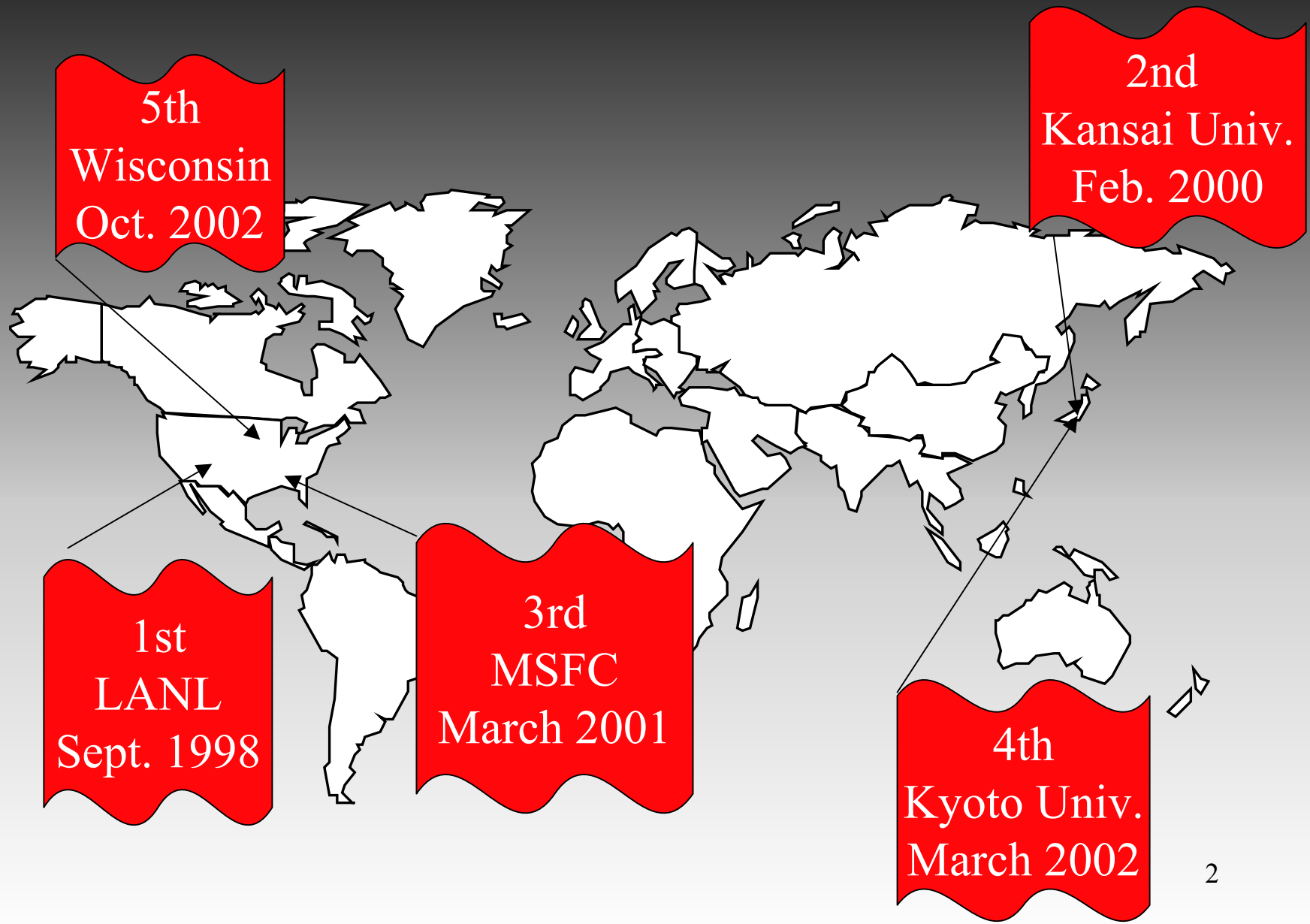
FIFTH US-JAPAN WORKSHOP

INERTIAL ELECTROSTATIC CONFINEMENT FUSION

University of Wisconsin – Madison

October 9-10, 2002

Previous US-Japan IEC Workshops



Agenda: US-Japan IEC Workshop

Wednesday, October 9, 2002			
7:45	Registration & Continental Breakfast		
8:30	Opening of Workshop(Kulcinski)		
	Session 1: Santarius, Chair		
8:45	Ohnishi	Kansai U	Overview of Japanese IEC Program
9:15	Kulcinski	UW	Overview of US IEC Program
9:45	Higashi, Tomizawa, Daino, Yamamoto	Kyoto U	Experimental Status of a Cylindrical IECF Device at Kyoto University
10:15	Break		
	Session 2: Ohnishi, Chair		
10:30	Nebel, Park, Sekora, Rellergert	LANL	Experimental and Theoretical Studies of Electrostatic Confinement
11:00	Matsuura	Kyushu U	Correlation between Discharged Current and Neutron Production Rate for Various Ion/Electron Convergence in Spherical Inertial Electrostatic Confinement Plasmas
11:30	Shaban, Miley	U Illinois	Practical Ion Source for High Fusion Yield in Inertial Electrostatic Confinement
12:00	Lunch		
	Session 3: Miley, Chair		
1:30	Yamauchi, Tomiyasu, Watanabe, Okino, Hotta	Tokyo Inst of Tech	Fundamental Study of Radially Convergent Beam Fusion
2:00	Ashley, Kulcinski, Santarius, Murali, Piefer, Cipiti, Radel, Weidner	UW	Fusion-Product Source Regions in the UW IEC Device
2:30	Mizutani, Nagafuchi, Imoto, Masuda, Toku,Nagasaki, Yoshikawa	Kyoto U	Magnetron Discharge Characteristics for Improvement of IEC Performance
3:00	Break / Picture		
	Session 4: Yamamoto, Chair		
3:15	Wu, Kim, Miley	U Illinois	IEC-Based Neutron Generator for Security Inspection System
3:45	Osawa, Miyagi, Tanaka, Kiritani, Sadahiro, Tabata, Ohnishi	Kansai U	Effects of Cathode Structure on Neutron Production in IEC Devices
4:15	Cipiti	UW	Embedded Reactions and Isotope Production in the UW IEC Devic
4:35	Weidner, Kulcinski, Santarius, Ashley, Piefer, Cipiti, Radel, Murali	UW	Production of ^{13}N Using D-^{3}He Fusion Protons
5:00	Reception		
6:00	Dinner		
7:00	Keynote Speech (Hirsch)	RAND Corp	

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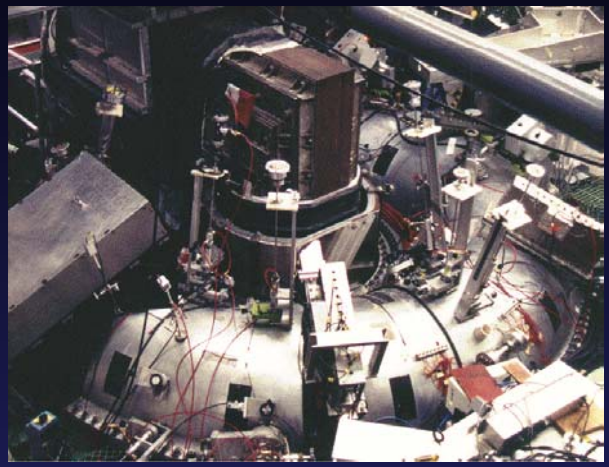
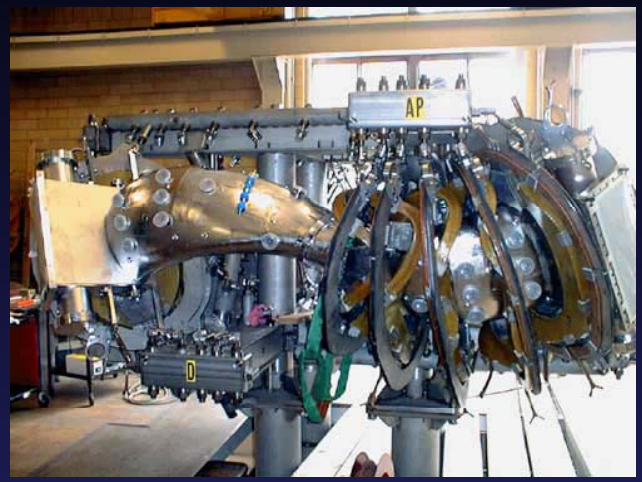
Thursday, October 10, 2002

8:00	Continental Breakfast		
	Session 5: Nebel, Chair		
8:30	Santarius, Ashley, Kulcinski, Cipiti, Murali, Piefer, Radel, Weidner	UW	Modeling D-D Operation of the UW IEC Experiment
9:00	Momota, Miley, Bauer	U Illinois	NBI Supported IEC
9:30	Imoto, Masuda, Nagasaki, Toku, Yoshikawa	Kyoto U	Two-Dimensional Simulation on the Improvement of a Spherical IEC Device Using Magnetron Discharge
10:00	Break		
	Session 6: Hotta, Chair		
10:15	Stubbers, Kim, Miley	U Illinois	Two-Dimensional Modeling of a Radially-Convergent Cylindrical Inertial Electrostatic Confinement (IEC) Fusion Device
10:45	Noborio, Sakai, Yamamoto	Kyoto U	Analysis of Spatial Fusion Reaction Distributions in Spherical IECF Device Using a Particle Code
11:15	Burton, Richardson, Shaban, Webber, Miley, Momota	U Illinois	Fusion Ship II--a Fast Manned Interplanetary Space Vehicle Using Inertial Electrostatic Fusion
	Session 7: Kulcinski, Chair		
11:45	Workshop summary		
12:15	Lunch		
1:30	Transportation to ERB		
2:00	Tour		
3:00	Workshop end		

There Are Many Experimental Fusion Devices on the University of Wisconsin Campus



RFP – Physics



HSX - Electrical & Computer Engineering

Pegasus - Engineering Physics

IEC - Engineering Physics