



**FUSION
FOR
ENERGY**



AGENDA of 6th IFMIF WORKSHOP

20 January to 24 January 2014
Nagoya & Kyoto

Monday 20 Nagoya	09:30 - 11:15 Official Presentations Chairmen C. Pagani & T. Nishitani	13:00	14:00 – 18:00
	11:40 13:00 IFMIF general presentation Chairmen U. Fischer & H. Horiike	Lunch	Design of IFMIF plant Chairmen R. Heidinger & M. Sugimoto
Jan. 20: Workshop dinner in Nagoya			
Tuesday 21 Nagoya	08:30 - 12:30	12:30	13:15 – 16:20
	ELTL, purification and flow dynamics Chairmen S. Nitti & Y. Tsuji	Lunch	LIPAc Chairmen A. Facco & A. Kasugai
Jan. 21: Tour to NIFS (Bus Transfer for participants will be arranged)			
Wednesday 22 Kyoto	9:30 - 13:00	13:00	14.00 - 18.00
	Lifus6 and related activities Chairmen G. Micciche & E. Wakai	Lunch	SSTT Towards Standardization Chairmen A. Kimura & A. Moeslang
Jan. 22: Workshop dinner in Kyoto			
Thursday 23 Kyoto	9:00 - 13:05	13.00	14:00 - 18:00
	LIPAc Chairmen P. Cara & A. Noda	Lunch	HFTM and BR2 irradiation Chairmen A. Ibarra & T. Muroga
Friday 24 Kyoto	9:00 - 12.30	12:30	
	Neutron sources perspectives Chairmen J. Knaster & T. Nishitani	Lunch	



Monday 20 January 2014

Location: Toyoda Auditorium - Nagoya University

Morning Sessions - Venue: Symposium Hall (1F)

Official Presentations 09:30 – 11:15 Chairmen: C. Pagani & T. Nishitani		
09:30-10:00	Welcome. Introduction of Activities in Nagoya University	I. Yamamoto (VicePresident – Nagoya University)
10:00-10: 25	Recent Studies of Nuclear Fusion Technology in Nagoya University	T. Iguchi (Nagoya University)
10:25-10:50	Recent Fusion Related Activities in Atomic Energy Society of Japan	H. Horiike (Osaka University)
10:50-11:15	IFMIF Program on the path towards DEMO Fusion Reactor	H. Takatsu (JAEA)
<i>11:15-11:40</i>	<i>Coffee Break</i>	
IFMIF General Presentation 11:40 – 13:00 Chairmen: U. Fischer & H. Horiike		
11:40-12:10	IFMIF/EVEDA Project – Status and Perspectives	J. Knaster (IFMIF/EVEDA PL)
12:10-12: 40	Accomplishment of IFMIF Engineering Design Activities (IIEDR Report)	A. Ibarra (CIEMAT)
12:40-13:00	Conclusions of the Quality Review panel of the IFMIF Intermediate EDR	C. Pagani (University of Milano)
<i>13:00-14:00</i>	<i>Lunch</i>	



Afternoon Sessions - Symposium Hall (1F)

Design of IFMIF Plant 14:00 – 18:00 Chairmen: R. Heidinger & M. Sugimoto		
14:00-14:30	IFMIF Plant General Configuration	G. Pruneri (IFMIF/EVEDA PT)
14:30-15:00	IFMIF Plant Building Architecture	T. Kubo (JAEA)
15:00-15:30	IFMIF Control Architecture	H. Takahashi (JAEA)
<i>15:30-15:45</i>	<i>Coffee Break</i>	
15:45-16:30	Safety and RAMI studies for IFMIF	CIEMAT
16:30-17:15	Neutronic Analysis for IFMIF	K. Kondo (KIT)
17:15-18:00	Advanced methods and concepts used for IFMIF beam dynamics	P. Nghiem (CEA)
<i>18:00</i>	<i>Adjourn</i>	

Tuesday 21 January 2014

Location: Toyoda Auditorium - Nagoya University

Morning Sessions - Venue: Symposium Hall (1F)

ELTL, Purification and Flow Dynamic 08:30 – 12:30 Chairmen: S. Nitti & Y. Tsuji		
08:30-08:45	Introduction	E. Wakai (JAEA)
08:45-09: 20	ELTL Validation Test Program and Technological Issues	H. Kondo (JAEA)
09:20-09:45	Lithium Target Flow Validation with Flow Diagnostics	T. Kanemura (JAEA)
09:45-10:05	Cold Trap Validation	T. Furukawa (JAEA)
10:05-10:30	Purification H Trap System	S. Fukuda (Kyushu University)
<i>10:30-10:45</i>	<i>Coffee Break</i>	
10:45-11:05	Hydrogen Monitor	J. Yagi (NIFS)
11:05-11:30	Status and Test Plan of Cavitation Sensor in ELTL	G. Micciche (ENEA)
11:30-12:00	Flow Dynamics and Osaka Loop Experiments	E. Hoashi (Osaka University)
12:00-12:20	The Beam – Target Interaction – A State of the Art	J. Knaster (IFMIF/EVEDA PL)
12:20-12:30	Open Discussions and Summary	ALL
<i>12:30-13:15</i>	<i>Lunch</i>	

Afternoon Sessions - Venue: Symposium Hall (1F)

LIPAc 13:15 – 16:20 Chairmen: A. Facco & A. Kasugai		
13:15-13:35	LIPAc: General Status at Rokkasho	JAEA / PT
13:35-13:55	LIPAc: General Status in EU-HT	F4E
13:55-14:20	Beam Dynamics: Simulation of Beam Dynamics incl. Space Charge Effect	CEA
14:20-14:40	Injector: Installation & Commissioning Plan	JAEA / PT
<i>14:40-14:55</i>	<i>Coffee Break</i>	
14:55-15:25	RFQ: Present Status and Mechanical Construction	A. Pepato (INFN, Padova Univ.)
15:25-15:45	RFQ: RF test at LNL, Cavities...	A. Palmieri (INFN, Legnaro)
15:45-16:00	RFQ: RF Couplers Technical Developments	JAEA
16:00-16:20	MEBT: Description and Present Status	CIEMAT
<i>16:20</i>	<i>Adjourn</i>	



Wednesday 22 January 2014
Location: Uji Obaku Plaza - Kyoto University

Morning Sessions - Venue: Kihada Hall

Lifus6 and Related Activities 09:30– 13:00 Chairmen: G. Micchiche & E. Wakai		
09:30-09:40	Introduction	G. Micchiche (ENEA)
09:40-10: 20	Lifus6 Operation and Experimental Program	P. Favuzza (ENEA)
10:20-11:00	Purification N Trap System	A. Suzuki (University of Tokyo)
<i>11:00-11:20</i>	<i>Coffee Break</i>	
11:20-11:50	Procedures for the Lithium Purification and Analysis in Lifus6	P. Favuzza (ENEA)
11:50-12:15	Round Robin Experiment on Nitrogen Analysis	ENEA & JAEA & Univ. Tokyo
12:15-12:40	Remote Handling	ENEA & JAEA
12:40-13:00	Open Discussions and Summary	ALL
<i>13:00-14:00</i>	<i>Lunch</i>	



Afternoon Sessions - Venue: Kihada Hall

Small Specimen Test Technique (SSTT) – Towards Standardization 14:00 – 18:00 Chairmen: A. Kimura & A. Moeslang		
14:00-14:35	Recent developments in testing and modeling for fracture toughness and plastic flow using SSTT	P. Spaetig (PSI)
14:35-15: 10	Fracture Toughness in SSTT (1)	A. Kimura (Kyoto University)
15:10-15:45	Fracture Toughness in SSTT (2)	H. Kurishita (Tohoku University)
<i>15:45-16:10</i>	<i>Coffee Break</i>	
16:10-16:45	Push-Pull Fatigue in SSTT	S. Nogami (Tohoku University)
16:45-17:05	Crack Growth Rate in SSTT	Y. Ito (Hachinohe Inst. Tech.)
17:05-17:40	Towards Standardization	H. Nakajima (JAEA)
17:40-18:00	Open Discussions and Summary	ALL
<i>18:00</i>	<i>Adjourn</i>	



Thursday 23 January 2014
Location: Uji Obaku Plaza - Kyoto University

Morning Sessions - Venue: Kihada Hall

LIPAc: 09:00 – 13:05 Chairmen: P. Cara & A. Noda		
09:00-09:25	SRF Linac: Cryomodule design, assembly and alignment	CEA
09:25-09:55	SRF Linac: Progress and results of cavity, solenoid and coupler prototypes	CEA
09:55-10:15	HEBT – Beam Dump: Current Status (D-Plate; HEFT Line and BD Design)	CIEMAT
10:15-10:45	RF Power System: Current design status of RF Modules	CIEMAT
10:45-11:00	Control System: Integration and Development Plan	JAEA / PT
<i>11:00-11:15</i>	<i>Coffee Break</i>	
11:15-11:35	Beam Instrumentation: Current Status (Acceptance Tests; Integration; etc.)	EU-HT
11:35-11:55	Building and Infrastructure: Installation Plan and Current Status	JAEA
11:55-12:10	Alignment: Strategy (algorithm, procedure,...), status of the building	PT
12:10-12:30	Radiation Calculation: Prompt and Residual Dose, Commissioning Phase...	UNED
12:30-12:45	Radiation Safety Control: Overall Scheme, RI Licensing...	JAEA
12:45-13:05	Commissioning Plan	PT
<i>13:05-14:00</i>	<i>Lunch</i>	



Afternoon Sessions - Venue: Kihada Hall

High Flux Test Module (HFTM) and BR2 Irradiation Program 14:00– 18:00 Chairmen: A. Ibarra & T. Muroga		
14:00-14:30	HFTM-V Design Description	F. Arbeiter (KIT)
14:30-15:00	Current and Beyond HFTM-H	T. Yokomine (Kyoto University)
15:00-15:30	Intermediate Validation Results from BR2 Irradiation Activities (incl. manufacture of the capsules; specimens insertion and NaK filling; and QA procedures)	F. Arbeiter (KIT)
15:30-15:45	<i>Coffee Break</i>	
15:45-16:15	BR2 Irradiation: Irradiation Rig and Experiments Planning	SCK-CEN
16:15-16:45	Intermediate Validation Results from Helium Loop activities (incl. information on HELOK-LP, fabrication of single parts, test of HFTM-SR rigs at IFMIF operation conditions)	F. Arbeiter (KIT)
16:45-17:15	Summary of Lessons Learned and HFTM Design Issues	F. Arbeiter (KIT)
17:15-17:45	Other Validation Activities: Microfission Chambers Validation	J. Mollá (CIEMAT)
17:45-18:00	Wrap-Up Session	ALL
18:00	<i>Adjourn</i>	



Friday 24 January 2014

Location: Uji Obaku Plaza - Kyoto University

Morning Sessions - Venue: Kihada Hall

Neutron Sources Perspectives 09:00 – 12:30 Chairmen: J. Knaster & T. Nishitani		
09:00-09:45	Materials Research Needs for Fusion Roadmaps	H. Tanigawa (JAEA)
09:45-10:30	About a Japanese Fusion Relevant Neutron Source	JA-HT
10:30-10:45	<i>Coffee Break</i>	
10:45-11:30	Myrrha for Fusion Material Research	SCK-CEN
11:30-12:15	About an European Fusion Relevant Early Neutron Source	EU-HT
12:15-12:30	Wrap-Up Session	J. Knaster (IFMIF/EVEDA PL)
12:30-14:00	<i>Lunch</i>	