Schedule of the 11th China-Japan Symposium on

Materials for Advanced Energy Systems and Fission & Fusion Engineering

Tuesday, September 11, 2012				
Session 1: O	penir	ng of CJS-11		
8:30-8:50	We	coming address:	1. Shuming Peng, CAEP, China 2.Takeo Muroga, NIFS, Japan	
Session 2: K	leynot	tes (Chairpersons	: A. Sagara, Shuming Peng)	
8:50-9:15	K01		R&D of heavy liquid metal cooled reactor in China Institute of Nuclear Energy Safety Technology, CAS)	
9:15-9:40	K02		nctural materials innovation——Radiation tolerance mura (Kyoto University, Kyoto)	
9:40-10:05	K03	1 0	ss on R&D of Chinese solid breeder TBM eng (Southwestern Institute of Physics, Chengdu)	
10:05-10:35	Coffe	e Break&Photog	raphy of group photo	
10:35-11:00	K04		f fusion related tritium research activities in Japan 10 (Shizuoka University, Shizuoka)	
11:00-11:25	K05	-	considerations of D-T fuel recycling for CFETR (Institute of Nuclear Physics and Chemistry,CAEP)	
11:25-11:50	K06	collaboratio	ation of fusion structural materials in NIFS under the Japan-China on programs oga (National Institute for Fusion Science, Toki)	
11:50-13:30	Lunc	h		

	ankot	Tec	Tuesday, September 11, 2012 hnology 1 (ROOM 1) (Chairpersons: S. Fukada, Heyi Wang)
10.00.10.55		<u>1 ec</u> 3-1	The second releases help and the second releases for the second related lithing and the second releases help and the second related lithing and related
13:30-13:55	K07		Tritium migration and release behaviors for neutron irradiated lithium-enriched Li ₂ TiO ₃ . Yasuhisa Oya (Shizuoka University, Shizuoka)
13:55-14:20	VOO	3-2	Tritium release on Li ₄ SiO ₄ pebbles from TRINPC-I experiments
13:55-14:20	K08		Chunmei Kang (Institute of Nuclear Physics and Chemistry, CAEP)
		3-3	Tritium release kinetics of lithium orthosilicate pebble irradiated with low
14:20-14:40			thermal-neutronfluence
11.20 11.10	001		Chengjian Xiao (Institute of Nuclear Physics and Chemistry, CAEP)
		3-4	Experimental investigation of thermal conductivity of the Li ₄ SiO ₄ pebble beds
14:40-15:00	O02	J- 1	YongjinFeng (Southwestern Institute of Physics, Chengdu)
		3-5	Characterization of lithium orthosilicate ceramic pebble produced from lithium hydroxide
15:00-15:20	O03	5-5	Xiaoling Gao (Institute of Nuclear Physics and Chemistry, CAEP)
15:20-15:35	Coffee	Bre	ak
			nology 2(ROOM 1) (Chairpersons: K. Okuno, Kaiming Feng)
		4-1	Development of CLAM steel and liquid breeder TBM
15:35-16:00	K09	T 1	Qunyin Huang (Institute of Nuclear Energy Safety Technology, CAS)
		4-2	Chemical activity of hydrogen isotopes in Pb-Li eutectic alloy blanket
16:00-16:25	K10	+-2	Satoshi Fukada (Kyushu University, Fukuoka)
	ł	4-3	Hydrogen extraction from liquid lithium-lead alloy by gas-liquid exchange method
16:25-16:50	K11 (J	Bo Xie (Institute of Nuclear Physics and Chemistry, CAEP)
	+	4-4	Fabrication techniques development of liquid breeder TBM in China
16:50-17:10	004 ^ľ	4-4	Chunjing Li (Institute of Nuclear Energy Safety Technology, CAS)
10.00 17.10	001		Chunjing Li (Institute of Nuclear Energy Safety Technology, CAS)
		4-5	Study on hydrogen isotopes permeation under lithium-lead thermal convection
17:10-17:30	O05		Makoto Okada (Kyushu University, Fukuoka)
Adjourn			
Transfer to l			
Session 5: Fis	ssion]	Mate	erials & Fuels 1 (ROOM 2) (Chairpersons: A. Kimura, Yican Wu)
		5-1	Effective transmutation of high level radioactive waste in fast reactor by using
13:30-13:55	K12		hydride targets
			Michio Yamawaki (Research Institute of Nuclear Engineering, Uni. of Fukui)
		5-2	Design, construction and experiment of heavy liquid metal loops for advanced
13:55-14:20	K13		nuclear reactors in China
			Sheng Gao (Institute of Nuclear Energy Safety Technology, CAS)
		5-3	The study on fabrication and performance detection of U-Mo-Al plate-typ
14:20-14:40	O06		dispersion fuel element for fission research reactor
			Jiangang Chen (National key laboratory of reactor fuel and materials, NPIC)
14 40 15 00	0.07	5-4	Influence of microstructure of Sc film on the deuterium absorption capacity
14:40-15:00	007		Qingying Wu (Institute of Nuclear Physics and Chemistry, CAEP)
		5-5	Influence of mesh specification and flow velocity on purification efficiency of
15:00-15:20			cold trap in lead-bismuth alloy
10.00 10.40	200		Jingyao Xu (Institute of Nuclear Energy Safety Technology, CAS)
	0 66	Bre	
15.20-15.35	Ottee		
15:20-15:35 (Cottee	Mat.	prials & Fuels 2 (ROOM 2) (Chairnersons: T. Muraga, Lei Peng)
Session 6: Fis	ssion 1	Mate	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng)
15:20-15:35 (Session 6: Fis 15:35-16:00	ssion 1	Mate 6-1	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng) Oxygen control system for the melt of lead–bismuth eutectic alloy
Session 6: Fis 15:35-16:00	ssion 1 K14	Mat 6-1	Oxygen control system for the melt of lead–bismuth eutectic alloyHailong Chang (Institute of Modern Physics, CAS)
Session 6: Fis	ssion 1 K14	Mate	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng) Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS) Effects of stress on radiation induced hardening of Fe-Mn model alloys
Session 6: Fis	ssion 1 K14 K15	Mate 6-1 6-2	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng) Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS) Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka)
Session 6: Fis 15:35-16:00 16:00-16:25	ssion 1 K14 K15	Mat 6-1	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng) Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS) Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka) Corrosion behaviors of B4C-Al composite materials in PWR spent fuel pools
Session 6: Fis 15:35-16:00 16:00-16:25	ssion 1 K14 K14 K15 K15 O09 K15	Mate 6-1 6-2 6-3	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng)Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS)Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka)Corrosion behaviors of B4C-Al composite materials in PWR spent fuel pools Jianmin Shi (Institute of Nuclear Physics and Chemistry, CAEP)
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Session 6: Fis 15:35-16:00 16:00-16:25 16:25-16:45	ssion 1 K14 K14 K15 009	Mate 6-1 6-2 6-3	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng)Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS)Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka)Corrosion behaviors of B4C-Al composite materials in PWR spent fuel pools Jianmin Shi (Institute of Nuclear Physics and Chemistry, CAEP)Polyvinyl alcohol functionalized with vinylphosphonic acid for sorption of uranium (VI) ions in aqueous solutions
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Session 6: Fis 15:35-16:00 16:00-16:25	ssion K14 K14 K15 O09 O10	Mate 6-1 6-2 6-3 6-4	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng)Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS)Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka)Corrosion behaviors of B4C-Al composite materials in PWR spent fuel pools Jianmin Shi (Institute of Nuclear Physics and Chemistry, CAEP)Polyvinyl alcohol functionalized with vinylphosphonic acid for sorption of uranium (VI) ions in aqueous solutions Fangting Chi (Institute of Nuclear Physics and Chemistry, CAEP)
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Session 6: Fis 15:35-16:00 16:00-16:25 16:25-16:45	ssion K14 K14 K15 O09 000 O10 000	Mate 6-1 6-2 6-3 6-4	 erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng) Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS) Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka) Corrosion behaviors of B4C-Al composite materials in PWR spent fuel pools Jianmin Shi (Institute of Nuclear Physics and Chemistry, CAEP) Polyvinyl alcohol functionalized with vinylphosphonic acid for sorption of uranium (VI) ions in aqueous solutions Fangting Chi (Institute of Nuclear Physics and Chemistry, CAEP) Studies on ion exchange behavior of cesium into zirconium molybdopyro phosphate and its application as precursor of cesium ion sieve
Session 6: Fis 15:35-16:00 16:00-16:25 16:25-16:45 16:45-17:05 17:05-17:25	ssion K14 K14 K15 O09 000 O10 000	Mate 6-1 6-2 6-3 6-4	erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng)Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS)Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka)Corrosion behaviors of B4C-Al composite materials in PWR spent fuel pools Jianmin Shi (Institute of Nuclear Physics and Chemistry, CAEP)Polyvinyl alcohol functionalized with vinylphosphonic acid for sorption of uranium (VI) ions in aqueous solutions Fangting Chi (Institute of Nuclear Physics and Chemistry, CAEP)Studies on ion exchange behavior of cesium into zirconium molybdopyro
Session 6: Fis 15:35-16:00 16:00-16:25 16:25-16:45 16:45-17:05 17:05-17:25 Adjourn	ssion K14 K14 K15 O09 O10 O11 O11	Mate 6-1 6-2 6-3 6-4 6-5	 erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng) Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS) Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka) Corrosion behaviors of B4C-Al composite materials in PWR spent fuel pools Jianmin Shi (Institute of Nuclear Physics and Chemistry, CAEP) Polyvinyl alcohol functionalized with vinylphosphonic acid for sorption of uranium (VI) ions in aqueous solutions Fangting Chi (Institute of Nuclear Physics and Chemistry, CAEP) Studies on ion exchange behavior of cesium into zirconium molybdopyro phosphate and its application as precursor of cesium ion sieve Kai Lu (Institute of Nuclear Physics and Chemistry, CAEP)
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Session 6: Fis 5:35-16:00 6:00-16:25 6:25-16:45 6:45-17:05 7:05-17:25 Adjourn	ssion K14 K14 K15 O09 O10 O11 O11	Mate 6-1 6-2 6-3 6-4 6-5	 erials & Fuels 2 (ROOM 2) (Chairpersons: T. Muroga, Lei Peng) Oxygen control system for the melt of lead–bismuth eutectic alloy Hailong Chang (Institute of Modern Physics, CAS) Effects of stress on radiation induced hardening of Fe-Mn model alloys Hideo. Watanabe (Kyushu University, Fukuoka) Corrosion behaviors of B4C-Al composite materials in PWR spent fuel pools Jianmin Shi (Institute of Nuclear Physics and Chemistry, CAEP) Polyvinyl alcohol functionalized with vinylphosphonic acid for sorption of uranium (VI) ions in aqueous solutions Fangting Chi (Institute of Nuclear Physics and Chemistry, CAEP) Studies on ion exchange behavior of cesium into zirconium molybdopyro phosphate and its application as precursor of cesium ion sieve Kai Lu (Institute of Nuclear Physics and Chemistry, CAEP)

	Wednesday, September 12, 2012			
Session 7: First Wall Technology 1 (ROOM 1) (Chairpersons: Y. Oya, Guanghong Lu)				
9:00-9:25	K16	7-1	Desorption kinetics of hydrogen isotopes Implanted by glow discharge	
	K 10		Masao Matsuyama (University of Toyama, Toyama)	
9:25-9:50	K17	7-2	R&Ds on ITER enhanced heat flux first wall in China	
	Ν Ι/		Jiming Chen (Southwestern Institute of Physics, Chengdu)	
9:50-10:15	V10	7-3	Tritium transport in neutron-irradiated tungsten	
	K18		Yuji Hatano (University of Toyama, Toyama)	
10:15-10:35	012	7-4	Preparation and characterization of high performance ODS ferritic steel	
10.13-10.55	012		Xianping Wang (Institute of Solid State Physics, CAS)	
10:35-10:45			Coffee Break	
Session 8: F	'irst W	all T	echnology 2 (ROOM 1) (Chairpersons: Y. Hatano, Changsong Liu)	
		8-1	Reduction of in-vessel tritium inventory using glow discharge conditionings	
10:45-11:10	K19		T. Hino (Hokkaido University, Sapporo)	
11.10 11.25	V20	8-2	Progress of W/Cu divertor project for EAST	
11:10-11:35	K20		Guangnan Luo (Institute of Plasma Physics, CAS)	
11:35-12:00	W01	8-3	Effect of carbon on hydrogen behavior in tungsten	
11:33-12:00	K 21		Yuexia Wang (Institute of Modern Physics, Fudan University)	
12.00 12.20	012	8-4	Preparation and characterization of high performance tungsten	
12:00-12:20	013		Qianfeng Fang(Institute of Solid State Physics, CAS)	
12:20-13:30			Lunch	
Session 9: F	'irst W	all T	echnology 3 (ROOM 1) (Chairpersons: T. Hino, Guangnan Luo)	
		9-1	Deuterium retention in tungsten deposits by deuterium ion exposure	
13:30-13:55	K22		Kazunari Katayama (Kyushu University, Fukuoka)	
		9-2	Sensitivity calibration method and application of a high-sensitivity thermal desorption spectroscopy	
13:55-14:15	014	-	system to investigate the behavior of hydrogen isotopes and helium in fusion reactor materials	
			Tirui Xia (China Institute of Atomic Energy)	
14 15 14 25	015	9-3	Deuterium behavior in vacuum plasma spray W coating	
14:15-14:35	015		Teo Nozaki (University of Toyama, Toyama)	
14 25 14 55	016	9-4	Cavity swelling in ferritic/martensitic steels irradiated with energetic ions	
14:35-14:55	016		Tielong Shen (Institute of Modern Physics, CAS)	
14 55 15 15	017	9-5	Deuterium Absorption Behaviors of Ti-Zr-Ni(-Pd) quasi crystals with prospect in ITER	
14:55-15:15	017		HuogenHuang (China Academy of Engineering Physics)	
15:25-15:35	Coffe	e Bre		
			n materials (ROOM 1) (Chairpersons: M. Matsuyama, Qunyin Huang)	
Session 10.	li y ui (10-1	Nucleation mechanism of H and He bubble	
15:35-16:00	K23		Changsong Liu (Institute of Solid State Physics, CAS)	
			Changsong Ena (Institute of Sona State 1 hysies, Criss)	
16.00 16.25	WO4	10-2	Progress of irradiation experiments on CLAM steel	
16:00-16:25	K24		Lei Peng(Institute of Nuclear Energy Safety Technology, CAS)	
	0.1.0	10-3	Permeation of hydrogen and deuterium through CLAM steel	
16:25-16:45	018	10 0	Xiaoqiang Chen (Institute of Nuclear Energy Safety Technology, CAS)	
	0.1.0	10-4	Determination of distribution coefficient of hydrogen isotopes between Y and Li	
16:45-17:05	019	10.	Satoshi Shigeharu (Kyushu University, Fukuoka)	
		10-5		
17:05-17:25	O20	10 0	Xiaojing Qian (China Academy of Engineering Physics)	
		10-6		
17:25-17:45		10 0	Hongbo Yan (Institute of Nuclear Physics and Chemistry, CAEP)	
		10-7		
17:45-18:05	022		Yong Yang (Institute of Nuclear Physics and Chemistry, CAEP)	
Adjourn	1	1		
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Wednesday, September 12, 2012			
Session 11: Fission Materials & Fuels 3 (ROOM 2)(Chairpersons: H. Watanabe, Yican Wu)			
		11-1	
9:00-9:25	K25		uranium/polyethylene shells
			Xiaosong Yan (Institute of Nuclear Physics and Chemistry, CAEP)
9:25-9:50	K26	11-2	Initiation of SCC in nickel-base weld metals in PWR primary water
9.25-9.50	1120		Ru Xiong (National Key Laboratory of Reactor Fuel and Materials, NPIC)
		11-3	Isotherm, thermodynamic and kinetic studies of Sr ²⁺ ion-exchange onto
9:50-10:10	O23		hexagonal tungsten oxide
		<u> </u>	Bijun Liu (Institute of Nuclear Physics and Chemistry, CAEP)
10:10-10:30	024	11-4	Unique hydrogen embrittlement of titanium during heating
		I <u> </u>	Xiaoqiu Ye (China Academy of Engineering Physics)
10:30-10:45			
Session 12:	Fissic		rerials & Fuels 4 (ROOM 2) (Chairpersons: M. Yamawaki, Farong Wan)
10:45-11:10	K27	12-1	The analysis of mechanical behavior for UMo/Al dispersion fuel during irradiation
10.15 11.10	1127		Xiao Liu (Institute of Nuclear Physics and Chemistry, CAEP)
11:10-11:30	025	12-2	Measurements of the multiplication of several depleted uranium spherical shells
11.10 11.00	020		Xuan Lian (Institute of Nuclear Physics and Chemistry, CAEP)
11:30-11:50	026	12-3	Corrosion of CVD-SiC in high temperature water and steam
		10.1	Qiang Zhang (National key laboratory of reactor fuel and materials, NPIC)
11:50-12:10	O27	12-4	Feasibility study of a SiC sandwich neutron spectrometer
			Jian WU (Institute of Nuclear Physics and Chemistry, CAEP)
12:10-13:30			
Session 13:	Fusio		erials 1 (ROOM 2) (Chairpersons: T. Kunugi, Yuexia Wang)
13:30-13:55	K28	13-1	The effect of tantalum on irradiation damage in ferritic steels
		12.0	Farong Wan (University of Science and Technology, Beijing)
12.55 14.20	W20	13-2	In-situ observation of radiation damage in iron base alloys by means of
13:55-14:20	K29		HVEM-ion accelerator Facility
		13-3	Somei. Ohnuki (Hokkaido University, Sapporo)
14:20-14:40	O28	13-3	Development of nano-particle dispersion strengthened vanadium alloys Pengfei Zheng (The Graduate University for Advanced Studies, Toki)
14:40-15:00	O29	13-4	Electron irradiation behaviors of pure vanadium and pure iron
14.40-13.00			Boling Zhu (University of Science and Technology, Beijing)
15 00 15 00	0.20	13-5	XPS study on surface oxidation of V-4Cr-4Ti alloy
15:00-15:20	030		Yufei Li (China Academy of Engineering Physics)
15:20-15:35	Coff	ee Brea	
			erials 2 (ROOM 2) (Chairpersons: S. Ohnuki, Chunjing Li)
		14-1	Overview of the research and developments of divertor materials and
15:35-16:00	K30		components at SWIP
			Xiang Liu(Southwestern Institute of Physics, Chengdu)
16:00-16:20	021	14-2	Current status of RAFM steel development for fusion blanket application at SWIP
10.00-10.20	051		Pinghuai Wang (Southwestern Institute of Physics, Chengdu)
16:20-16:40	022	14-3	Study on the irradiation damage of lithium tantalate implanted with ions
10.20-10.40	032		Lilong Pang (Institute of Modern Physics, CAS)
		14-4	The mechanism study of liquid metal induced micro-crack during arc brazing
16:40-17:00	O33		316SS cooling pipe for ITER magnet supports
			Pengyuan Lee (Southwestern Institute of Physics, Chengdu)
		14-5	Defects evolution and hardening of tungsten induced by 200 keV He-ions at
17:00-17:20	034	14.5	room temperature
17.00 17.20	0.57		Minghuan Cui (Institute of Modern Physics, CAS)
		14-6	Aging effects on the mechanical properties of ODS steels
17:20-17:40	O35	1.0	Dongsheng Chen (Kyoto University)
Adjourn			
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		Thursday, September 13, 2012
Session 15:	Reac	tor System & Design (ROOM 1) (Chairpersons: T, Muroga, Jiming Chen)
9:00-9:25	K31	15-1 Design rounds on helical DEMO reactor FFHR-d1 Akio Sagara (National Institute for Fusion Science, Toki)
9:25-9:50	K32	15-2 Conceptual design of China lead alloy based zero power reactor CLEAR-0 Chao Liu (Institute of Nuclear Energy Safety Technology, CAS)
9:50-10:10	O36	15-3 Conceptual design of fusion-fission hybrid multi-functional experimental reactor (FDS-MFX) Jieqiong Jiang (Institute of Nuclear Energy Safety Technology, CAS)
10:10-10:30		 15-4 Optimization design of plasma parameters for fusion-fission hybrid reactor based on GDT (FDS-GDT3) Dehong Chen (Institute of Nuclear Energy Safety Technology, CAS)
10:30-10:50	Coffe	e Break
Session 16:	Simul	ation, Data Base & Modeling (ROOM 2)(Chairpersons: K. Katayama, Sheng Hu)
9:00-9:25	K33	16-1 Modeling and simulation of hydrogen/helium behaviors in tungsten at different scales & plasma-irradiation-resistant materials design Guanghong Lu (Department of Physics, Beihang University)
9:25-9:50	K34	16-2 Current status of TITAN task 1-3"flow control and thermofluid modeling" Tomoaki Kunugi (Department of Nuclear Engineering, Kyoto University)
9:50-10:10	O38	 16-3 Numerical simulation of 3-dimension tritium distribution in dual-cooled lead lithium blanket for FDS-II Muyi Ni (Institute of Nuclear Energy Safety Technology, CAS)
10:10-10:30	O39	16-4 Numerical simulation of two-phase tritium transport in liquid PbLi bubble column Min Li (Institute of Nuclear Energy Safety Technology, CAS)
10:30-10:50	Coffe	e Break
Session 17:	Sumn	nary (Gathering to one room)
10:50-11:10	Sum	mary Report
11:10-11:30	Closi	ng Remarks
	Lunch	
Afternoon	Group Discussion	