## Session II A Advanced Materials and Chemistry

Venue : Room D/E, 3F, Icho Kaikan

8 October	
13:30-13:35	
Opening remarks	Prof. Tomoyuki Kakeshita (Osaka University)
Part1 : Chair person:	Prof. Shinji Fujimoto (Osaka University)
13:35-13:50	
Lecture 1	Prof. Jun WANG (Shanghai Jiao Tong University)
	"Fabrication of magnesia alumina spinel with aluminum dross"
13:50-14:05	
Lecture 2	Dr. Takeshi YOSHIKAWA (Osaka University)
	"Fabrication of Low-temperature Foaming Glass by the
	Hydrothermal Treatment of SiO <sub>2</sub> -Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> Glass"
14:05-14:20	
Lecture 3	Prof. Lanting ZHANG (Shanghai Jiao Tong University)
	"Structure and Thermoelectric Properties of Semiconducting
	Rhenium Silicide with Doping A First-Principles Calculation"
14:20-14:35	
Lecture 4	Prof. Yasufumi FUJIWARA (Osaka University)
	"Er,O-codoped GaAs-based 1.5 $\mu$ m Light-emitting Diodes with
	Extremely Stable Emission Wavelength"
14:35-14:50	
Lecture 5	Prof. Xiang-Yang KONG (Shanghai Jiao Tong University)
	"Novel lithium battery: nanorods inside"
14:50-15:00	Intermission
Part2 : Chair person:	: Prof. Xue-jun Jin (Shanghai Jiao Tong University)
15:00-15:15	
Lecture 6	Prof. Hidetoshi FUJII (Osaka University)
	"Development of Ultra-deep Penetration TIG Welding Method"
15:15-15:30	
Lecture 7	Prof. Zhaoguo ZHANG (Shanghai Jiao Tong University)
	"New Chiral Phosphine Ligands and Asymmetric Hydrogenation"

15:30-15:45	
Lecture 8	Prof. Hiromi YAMASHITA (Osaka University)
	"Application of Single-site Photocatalysts Designed using
	Nanoporous Materials"
15:45-16:00	
Lecture 9	Prof. Qizhong JIANG (Shanghai Jiao Tong University)
	"Preparation of Titania Nanotubes and Its Properties on
	Photocatalysts and Electrocatalysts"
16:00-16:15	
Lecture 10	Dr. Hiroaki TSUCHIYA (Osaka University)
	"Electrochemical Formation of Nanotublar TiO <sub>2</sub> Photocatalysts"
16:15-16:20	
Closing Remarks	Prof. Di ZHANG (Shanghai Jiao Tong University)
Part 3 :	

16:30 - 17:30

Discussion for the future collaboration (Closed meeting)