

EU-Korea Workshop on Advanced Functional Materials
Draft Programme – 14 January 2015

8 :30 - 9 :00	Registration/Coffee		
9 :00 - 9 :10	Welcome by EMRS-President (Dr T. Lippert) & K-MRS President (Dr. Do Jin Kim)		
	Speaker	Email	Title
9 :10	Sabine Puch German Aerospace Center European and International Cooperation ; Bonn, Germany	Sabine.Puch@dlr.de	EU-Korea collaborations : KONNECT/KORANET projects
9 :25	Yong-Hyun Kim Korea Advanced Institute of Science and Technology (KAIST)	yong.hyun.kim@kaist.ac.kr	Thermoelectricity at the atomic scale: Bulk vs. interface
9 :40	Aron Walsh Centre of Sustainable Chemical Technologies Department of Chemistry University of Bath, UK	A.Walsh@bath.ac.uk	Design principles for the control of lattice thermal conductivity
9 :55	Insung S. Choi, Center for Cell-Encapsulation Research (Creative Research Initiative); Department of Chemistry, KAIST, Korea	ischoi@kaist.ac.kr	Single-cell encapsulation
10 :10	Johannes Gierschner IMDEA Nanoscience Madrid, Spain	johannes.gierschner@imdea.org	Organic Single Crystal Lasers by Targeted Design
10 :30	Coffee Break		
10 :45	Jihyun Kim Dept. of Chemical and Biological Engineering, Korea University, Seoul, Korea	hyunhyun7@korea.ac.kr	GaN-LEDs with chemically doped graphene electrodes
11 :00	D'Aleo Anthony Interdisciplinaire de Nanoscience de Marseille Marseille (France)	daleo@cinam.univ-mrs.fr	Borondifluoride complexes of curcuminoids containing polycyclic aromatic hydrocarbons
11 :15	Doh Chang Lee Department of Chemical and Biomolecular Engineering Korea Advanced Institute of Science and Technology (KAIST)	dclee@kaist.edu	Heterostructure nanocrystal quantum dots for photocatalysis and light-emitting devices
11 :30	William Jo <i>Department of Physics, Ewha Womans University, Seoul, Korea</i>	wmjo@ewha.ac.kr	Size-dependent bipolar switching of NiO nanodots for lower- power and multi-state memory devices
11 :45	Gerald Ferblantier (ICUBE, Strasbourg, FR) or Aziz Dinia	Gerald.ferblantier@unistra.fr	Rare Earth Doped Transparent Conducting

	(IPCMS, Strasbourg, FR)		Oxides for photon converters
12 :00	Bumjoon Kim Associate Professor Department of Chemical and Biomolecular Engineering KAIST, Daejeon, Korea	BumjoonKim@kaist.ac.kr	Design of electroactive materials for improving stability in highly efficient polymer solar cell
12 :15	Barsella Alberto (IPCMS, EU)	alberto.barsella@ipcms.unistra.fr	Photopolymerization dynamics and its role in the growth of Light-Induced Swlf-Written waveguides
12 :30-13 :30	Lunch		
13 :30	Hee-Chun Lim KEPCO, Korea	imhchn@kepco.co.kr	Fuel cell R&D status of Korea
13 :45	Stavros Pissadakis Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology - Hellas (FORTH), Heraklion GREECE	pissas@iesl.forth.gr	All-optical optofluidic actuators in microstructured optical fibers utilizing ZnO overlayers
14 :00	Jong-Won Lee Senior Research Scientist, Korea Institute of Energy Research, Korea	jjong277@kier.re.kr	Conductive ceramic materials and coatings for SOFC interconnects
14 :15	Levente TAPASZTO Institute of Technical Physics and Materials Science, Centre for Energy Research, Hungarian Academy of Sciences H-1525 Budapest, P.O. Box 49, Hungary	tapaszto@mfa.kfki.hu	Electronic structure and magnetism of graphene nanoribbons with well defined crystallographic orientation
14 :30	Tae-Hyun YANG KIER, Korea	thyang@kier.re.kr	Development of hydrocarbon PEM and catalyst
14 :45	Dong-Gu Seo KIER, Korea	djseo@kier.re.kr	Natural gas reformer
15 :00-16 :00	Break & Poster		
16 :15	Jae Hak Jung Director of Regional Innovation Center for solar cell and module, Yeungnam Univ., Korea	jjung@ynu.ac.kr	Optimal design strategies of single crystal silicon ingot manufacturing processes for solar cell
16 :30	Thomas D. Anthopoulos Professor of Experimental Physics, Department of Physics & Centre for Plastic Electronics, Imperial College London Exhibition Road South Kensington, London SW7 2AZ, United Kingdom	thomas.anthopoulos@imperial.ac.uk	Low-dimensional charge transport phenomena in solution-processed metal oxide semiconductors and devices
16 :45	Byungha Shin	byungha@kaist.ac.kr	Future perspectives of

	KAIST		earth-abundant Cu ₂ ZnSnS ₄ solar cells
17 :00	Rajeev Ahuja Upsala University, SE	rajeev.ahuja@physics.uu.se	Oxide based materials for solar cell applications.
17 :15	Donghwan Kim Korea Univ., Korea	donghwan@korea.ac.kr	Application of perovskite layers to silicon solar cells
17:30	Peter Wellmann. Erlangen, DE	peter.wellmann@fau.de	Knowledge transfer & common R&D – processing of SiC crystals as key-enabling material for energy saving
17 :45	Yong-Beum Yoon KEPCO, Korea	yunybon@kepco.co.kr	Energy storage system application to power system
18 :00	Closing remarks : C. Park (YU, KR), A. Slaoui (US, FR)		
18 :30 – 20 :30	Dinner		