

## The 41th Summer Annual Conference of the Korean Vacuum Society International Symposium

■ International Symposium I (Aug.18, 2011)

9:40~12:00 / 15:20~18:10

▷ AVS-KVS Joint Symposium : Solar Cells with Nanostructural Materials

Time	Name	Affiliation	Title
09:40~10:10	Sung-Hwan Han	Hanyang University	CNTs Electric field enhancement of CIGS solar cells
10:10~10:40	Taiho Park	Phohang University	Thermodynamic Control in Competitive Anchoring of N719 sensitizer on Nanocrystalline TiO <sub>2</sub> for Improving Photoinduced Electrons
10:40~11:00	Break		
11:00~11:30	Larry Kazmerski	National Renewable Energy Laboratory	Solar Photovoltaics Technology: No longer an Outlier
11:30~12:00	Yung-Eun Sung	Seoul National University	Nanotube-based dye-sensitized solar cells
12:00~13:00	Lunch		
15:20~15:50	Robert Oplia	University of Delaware	Role of Surfaces and Their Analysis in Photovoltaics
15:50~16:20	JangJoo Kim	Seoul National University	Small molecular solar cells toward improved efficiency and stability
16:20~16:40	Break		
16:40~17:10	Kyungkon Kim	KIST	Interfacial Layers for High Efficiency Polymer Solar Cells
17:10~17:40	Wanin Lee	Inha University	Interfacial layer control in DSSC
17:40~18:10	Jonghyeok Park	Sungkyunkwan University	Enhancement of Power Conversion Efficiency from Controlled Nanostructure in Polymer Bulk-Hetero Junction Solar Cells

■ International Symposium II (Aug.19, 2011)

09:00–12:00 / 14:30–17:30

▷ Controlled Surface Reactions

Time	Name	Affiliation	Title
9:00~9:10	Opening remarks		
9:10~9:50	Andrew J. Gellman	Carnegie Mellon University	High Throughput Catalysis Surface Science
9:50~10:30	Francisco Zaera	University of California	New Nanostructured Heterogeneous Catalysts with Increased Selectivity and Stability
10:30~10:40	Break		
10:40~11:20	Jeong Young Park	KAIST	The Role of Surface Oxides, Metal–Oxide Interfaces, and Hot Electron Flows in Chemical Reactions on Nanoparticles
11:20~12:00	Cheol Ho Choi	Kyungpook National University	Molecular Reaction Mechanisms on Silicon Surface
12:00~13:00	Lunch		
14:30~15:10	Bongjin Simon Mun	Hanyang University	The correlation among surface structures, electronic structures, and surface chemical properties on Pt surface under various pressure condition
15:10~15:50	Hiroshi Kondoh	Keio University	Catalytic reactions on platinum–group metal surfaces studied by synchrotron–based core–level spectroscopy: dispersive–NEXAFS and ambient–pressure XPS
15:50~16:00	Break		
16:00~16:40	Jae Ryang Hahn	Chonbuk National University	Control and Monitoring Surface Chemical Reactions with a Scanning Tunneling Microscope
16:40~17:30	Bruce E. Koel	Princeton University	Site–directed chemistry and catalysis at Pt–Sn alloy surfaces: Tailoring selectivity