

# 16<sup>th</sup> International Symposium on Clean Technology

Hosts: Clean Energy Priority Research Center at YU (supported by MOE)  
The Institute of Clean Technology at YU  
BK21 PLUS IT and Energy Materials and Processes Program  
YU Leaders in Industry-university Cooperation (LINC)

Venue: ChE 213, Yeungnam University

Date/Time: November 18, 2016 (Friday) 10:00 – 18:00

10:00-10:20 **Registration**

## Opening Ceremony

Moderator : Prof. Woo Kyoung Kim / Vice Director, Institute of Clean Technology  
/ Associate Dean, College of Engineering

10:20-10:30 **Opening Address**

Prof. Jae-Jin Shim / Director, Institute of Clean Technology  
/ Director, Clean Energy Priority Research Center

**Welcome Address**

Prof. Sukyoung Kim / Dean, College of Engineering, YU

## Research Presentations

### **Session I: Technology for Energy Production**

Chair : Prof. Jong Su Kim / Department of Physics, YU

10:30-11:10 **"Cu(InGa)Se<sub>2</sub> Solar Cells - Progress and Prospects"**

Prof. William Shafarman (University of Delaware, USA)

11:10-11:50 **"Novel Strategy to Enhance Extracellular Electron Transfer in Microbial Fuel Cells"**

Prof. Zhang Qichun (Nanyang Technological University, SINGAPORE)

11:50-12:30 **"Hydrogen Production from Steam Reforming of Oxygenated Hydrocarbons"**

Prof. Vissanu Meeyo (Mahanakom University of Technology, THAILAND)

12:30-13:40 **Lunch break**

### **Session II: Technology for Energy Storage**

Chair : Prof. Jintae Lee / School of Chemical Engineering, YU

13:40-14:20 **"Bioenergy and Energy Storage Materials in Aid to Clean Technology for Energy Security"**

Prof. Maria Natalia Dimaano (University of Santo Tomas, PHILIPPINES)

14:20-15:00 **"Development of High-Power High-Voltage Supercapacitor"**

Dr. Jong-Huy Kim (Korea Institute of Energy Research, KOREA)

15:00-15:40 **"Three-dimensional Nanostructures in Energy Applications "**

Prof. Ji Hyun Jang (Ulsan National Institute of Science and Technology, KOREA)

15:40-16:10 **"Transition Metal Oxide/Sulfide Based Advanced Electrodes for Next-Generation Supercapacitor Applications"**

Prof. Sumanta Sahoo (Yeungnam University, KOREA/INDIA)

16:10-17:20 **Poster Session** (ChE 2F & 3F)

17:20-17:30 **Closing Remarks**

Prof. Jae-Jin Shim (Director, Institute of Clean Technology)

17:30-18:00 **Lab Tour**

18:30-20:00 **Dinner** (Boocheonsung)