

## History

### 2010

2010. 11 - The 5th Workshop of "Heeger Center for Advanced Materials"  
2010. 03 - Groundbreaking of New HCAM Building  
2010. 02 - Signing the 2nd Stage of MOU with Prof. Alan J. Heeger (UCSB) / GIST

### 2009

2009. 06 - The 4th Workshop of "Heeger Center for Advanced Materials"  
2009. 04 - APRI-HCAM Joint Workshop

### 2008

2008. 10 - HCAM Director (Prof. Alan J. Heeger) Special Lecture  
2008. 08 - A Business Report of UCSB-HCAM Center (Visit of GIST President)  
2008. 06 - The 2nd Management Committee of "Heeger Center for Advanced Materials"  
2008. 05 - The 3rd Workshop of "Heeger Center for Advanced Materials"

### 2007

2007. 11 - The Seminar of "Heeger Center for Advanced Materials"  
2007. 11 - The 2nd Workshop of "Heeger Center for Advanced Materials"

### 2006

2006. 10 - HCAM Director (Prof. Alan J. Heeger) Special Lecture  
2006. 07 - The 1st Research Committee of "Heeger Center for Advanced Materials"  
2006. 06 - The 1st Management Committee of "Heeger Center for Advanced Materials"  
2006. 01 - The 1st Workshop of "Heeger Center for Advanced Materials"

### 2005

2005. 09 - The Formulation of Management Rules for "Heeger Center for Advanced Materials"  
2005. 06 - A Temporary Management Committee of "Heeger Center for Advanced Materials"  
2005. 06 - The MOU Conclusion of a Nobel laureate, Prof. Alan J. Heeger (UCSB) / GIST  
2005. 02 - A Organization of invitation project for a Nobel laureate  
2005. 01 - A Plan of invitation project for a Nobel laureate in memory of 10 years after the opening of GIST



### Heeger Center for Advanced Materials

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# The 6<sup>th</sup> Workshop of "Heeger Center for Advanced Materials"

Nov.10 2011, PM 02:00,  
APRI Hall, GIST



솔라에너지연구소  
Research Institute for Solar and Sustainable Energies



광주과학기술원  
Gwangju Institute of Science and Technology

# The 6<sup>th</sup> Workshop of "Heeger Center for Advanced Materials"



## Heeger Center for Advanced Materials

In Heeger Center for Advanced Materials (HCAM), Prof. Alan J. Heeger is appointed to a director of this center and researches for realizing flexible electronics, which are next generation industries, were planned to be executed through organizing the research centers in both Gwanju Institute of Science and Technology and University of California at Santa Barbara. The ranges of researches in the HCAM are from basic science fields to researches for realizing "plastic electronic engineering" namely Organic EL, Organic Solar Cell, Organic Thin-Film Transistor, Organic Laser and Flexible Displays. These advanced devices make it possible to commercialize wearable computer and roll type display, moreover would improve the quality of life through devoting environmental preservation using solar substitute energy.

## Major Research Fields

- Polymer Solar Cells
- Polymer Thin-Film Transistors (PTFT)
- Polymer Light-Emitting Diodes (PLED)
- Large Area Printing Technology for Polymer Electronics

Nov.10 2011, PM 02:00, APRI Hall, GIST

## Workshop Program & Schedule



### Opening Remark

14:00~14:05 Vice Director : Prof. Kwanghee Lee

14:05~14:10 Director : Prof. Alan J. Heeger

### Session I

Dr. Heejoo Kim (RISE)

14:10~14:30 ▶ Control of Phase Separation in Donor-Acceptor Copolymer Based Bulk-Heterojunction Solar Cells

Byoung Hoon Lee (GIST)

14:30~14:50 ▶ Tailoring Organic/Metal Interfaces in Organic Electronic Devices

Sooncheol Kwon (GIST)

14:50~15:05 ▶ Synergic Effect of Processing Additive and Optical Spacer in Bulk-Heterojunction Solar Cells

Juhwan Kim (GIST)

15:05~15:20 ▶ Highly Soluble Poly(thienylenevinylene) Derivatives with Charge-Carrier Mobility Exceeding 1 cm<sup>2</sup>V<sup>-1</sup>s<sup>-1</sup>

Jun-Seok Yeo (GIST)

15:20~15:35 ▶ Vertical phase-separation in PEDOT:PSS films through polar solvent vapor annealing and their effect on electrode properties for organic optoelectronics

15:35~16:00 Coffee Break

### Session II

Prof. Alan J. Heeger (UCSB), Special Lecture

16:00~17:00 ▶ "Recent Progress in OPV at UC Santa Barbara"