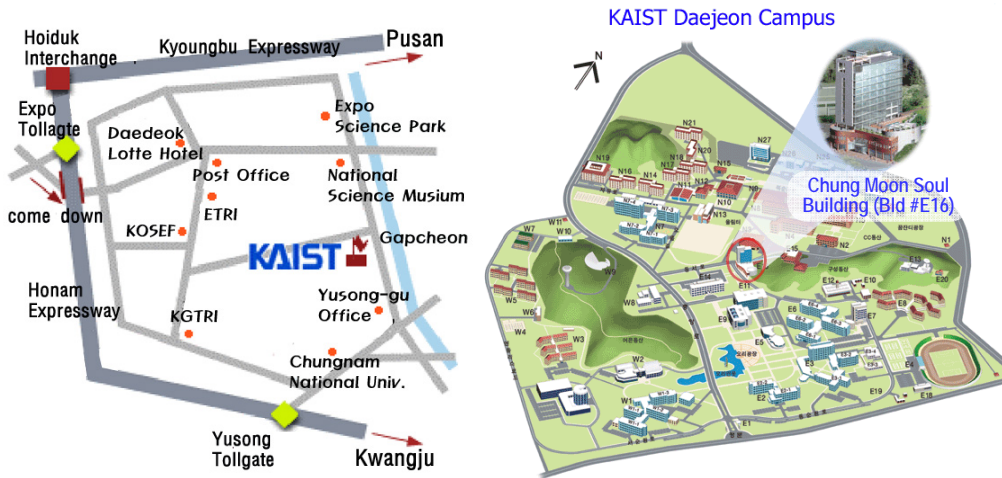


## LOCATION



## REGISTRATION

Free proceedings are available only for pre-registered attendees.  
Send your name, position, affiliation, telephone number,  
and e-mail address (all in English) to [nanosys@kaist.ac.kr](mailto:nanosys@kaist.ac.kr)  
no later than **10 July 2007**.

## FURTHER INQUIRY

### DIGITAL NANOLOCOMOTION CENTER

Korea Advanced Institute of Science and Technology  
TEL: +82-42-869-8691, FAX: +82-42-869-8690  
373-1 Guseong-dong, Yuseong-gu, Daejeon 305-701, Korea

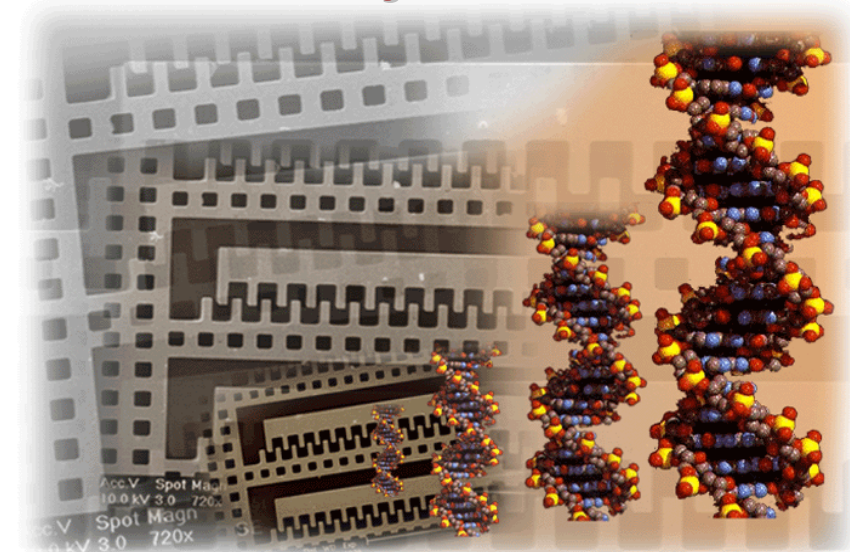


5<sup>th</sup> Korea-U.S.A. Joint Symposium



## Technical Program

# MEMS and BioSystems Technology



## Invited Speakers

(alphabetic order for each country)

**Eun Sok Kim** (USC)

**Abraham P. Lee** (UC Irvine)

**Albert P. Pisano** (UC Berkeley)

**Lydia Sohn** (UC Berkeley)

**Ming C. Wu** (UC Berkeley)

**Sang-Joon Cho** (Park Systems Corp.)

**Young-Ho Cho** (KAIST)

**Jaewoo Jung** (Samsung Electro-Mechanics)

**Ki-Dong Lee** (LG ELITE)

**Sang-Rok Lee** (KIMM)

**12 (Thursday) July 2007**

Dream Hall, Chung Moon Soul Building  
KAIST, Daejeon, Korea

KAIST (Digital Nanolocomotion Center)  
UC Berkeley (Berkeley Sensor and Actuator Center)  
KOSEF (Korea Science and Engineering Foundation)

Symposium Organizers:

**Young-Ho Cho** (Korea) and **Albert P. Pisano** (U.S.A.)



# Technical Program (12 July 2007)

09:00 ~ 09:20 *Registration*

09:20 ~ 09:25 **Welcome Address and Opening**  
*Albert P. Pisano*  
University of California at Berkeley

09:25 ~ 09:30 **Joint Activity Progress and Perspective**  
*Young-Ho Cho*  
Korea Advanced Institute of Science and Technology

**[Morning Session] Moderator: Albert P. Pisano**

09:30 ~ 10:00 **Optoelectronic Tweezers for Parallel Manipulation of Micro and Nano Particles**  
*Ming C. Wu*  
University of California at Berkeley

10:10 ~ 10:40 **Application of Nanoimprint Lithography to Nano-Optics**  
*Ki-Dong Lee*  
LG Electronics Institute of Technology

10:40 ~ 11:00 *Coffee Break*

11:00 ~ 11:30 **Cell-Based Assays Using a Protein-Functionalized Pore**  
*Lydia Sohn*  
University of California at Berkeley

11:40 ~ 12:10 **The Development of Ion Conductance Microscope Module and Future Possibilities**  
*Sang-Joon Cho*  
Park Systems Corporation

12:10 ~ 13:30 *Lunch Break*

**[Afternoon Session] Moderator: Young-Ho Cho**

13:30 ~ 14:00 **Microreaction Technology Based on Nanoliter Droplets**  
*Eun Sok Kim*  
University of Southern California

14:10 ~ 14:40 **Cavity-Through Deep Reactive Ion Etching of Directly-Bonded Silicon Wafers for Industrial Inkjet Printhead and Inkjet Printing Application**  
*Jaewoo Joung*  
Samsung Electro-Mechanics

14:40 ~ 15:00 *Coffee Break*

15:00 ~ 15:30 **Medicine on a Chip-Microfluidic Synthesis and Analysis of Biomolecules and Cells**  
*Abraham P. Lee*  
University of California at Irvine

15:40 ~ 16:10 **Nanomanufacturing Processes and Their Applications**  
*Sang-Rok Lee*  
Korea Institute of Machinery and Materials

16:10 ~ 16:30 *Wrap up*

16:30 ~ 17:00 **DNC N/MEMS Facility Tour**

17:00 ~ 18:00 **National NanoFab Center Tour**

18:30 ~ *Banquet*