



2nd U.S.A.-Korea Joint Symposium

March 11 (Thu) - 12 (Fri), 2004



MEMS and BioSystems Technology

Field Trip Program (11 March 2004)

400 Cory Hall

- 13:30 ~ 18:00 **Lab Tours**
MEMS Wankel Engine Project in Hesse Hall (Prof. Albert P. Pisano)
BioPOEMS Group (Prof. Luke P. Lee)
Campanile Tour
- 18:00 ~ **Reception**
Cocktail Party

Technical Program (12 March 2004)

120B & 120C Bechtel Engineering Center

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| 08:30 ~ 08:40 Welcome Address & Opening
<i>Albert P. Pisano</i>
University of California at Berkeley | 11:50 ~ 13:30 <i>Lunch Break</i> |
| 08:40 ~ 08:50 Progress Report and Perspective
<i>Young-Ho Cho</i>
Korea Advanced Institute of Science and Technology | 13:30 ~ 14:00 Design and Fabrication of Micro/Nano Optical Components
<i>Shinill Kang</i>
Yonsei University |
| 08:50 ~ 09:20 Neuromorphic Chips based on Human Auditory Pathway Modeling
<i>Soo-Young Lee</i>
Korea Advanced Institute of Science and Technology | 14:00 ~ 14:30 Learning in Artificial Sensorimotor Systems
<i>Daniel D. Lee</i>
University of Pennsylvania |
| 09:20 ~ 09:50 MEMS-based Fluid Delivery and Control Systems for BioMedical Applications
<i>Dorian Liepmann</i>
University of California at Berkeley | 14:30 ~ 15:00 Research on Micro Heater Efficiency for Thermal Inkjet Head
<i>Yongsoo Oh</i>
Samsung Advanced Institute of Technology |
| 09:50 ~ 10:20 <i>Coffee Break</i> | 15:00 ~ 15:30 <i>Coffee Break</i> |
| 10:20 ~ 10:50 The Overview of Nanoscale Mechatronics and Manufacturing Technology
<i>Sang-Rok Lee</i>
Korea Institute of Machinery and Materials | 15:30 ~ 16:00 A Wristwatch Blood Analyzer with Disposable Smart Plastic Lab-on-a-chip
<i>Chong. H. Ahn</i>
University of Cincinnati |
| 10:50 ~ 11:20 Unsupervised Learning of Structures in Natural Images
<i>Te-Won Lee</i>
University of California at San Diego | 16:00 ~ 16:30 Microfluidic Plastic Card for Enzyme Assay
<i>Je-Kyun Park</i>
Korea Advanced Institute of Science and Technology |
| 11:20 ~ 11:50 MEMS for Next Generation Data Storage
<i>Jong-Uk Bu</i>
LG Electronics Institute of Technology | 16:30 ~ 17:00 BioPOEMS and Nanogap DNA Junction
<i>Luke P. Lee</i>
University of California at Berkeley |
| | 19:00 ~ Banquet |