

THE 9TH INTERNATIONAL MICROMACHINE/NANOTECH SYMPOSIUM

1. **Date** : Nov. 13, 2003
2. **Place** : Science hall, Science Museum, in Kitanomaru Park, Tokyo
3. **Entrance fee** : ¥20,000/person (including proceedings)
4. **Acceptance of participants** : (till) Oct. 31, 2003
5. **Information window** : Micromachine Center International Exchange Dept.
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***** PROGRAM (Tentative) *****

November 13, 2003

9:00 – Registration

Session 1 : Opening

Chairman : Mr. Keiichi Aoyagi

- 9:30 – 9:35 Opening Remarks Mr. Toshiro Shimoyama, Chairman, Micromachine Center
9:35 – 9:40 Guest Speech Mr. Sakae Takahashi, Executive Director, NEDO
9:40 – 10:20 Special Guest Speech: MEMS and Opportunities for University / Industry Technology Transfer
Prof. Nico F. de Rooij, University of Neuchatel
10:20 – 11:00 Special Guest Speech: Turning MEMS Ideas Into MEMS Products Prof. Stephen D. Senturia, Massachusetts Institutes of Technology

Session 2 : The Path to New Industries in the 21st Century

Chairman : Prof. Isao Shimoyama

- 11:00 – 11:30 The Evolution of Relay to RF-MEMS for High-speed and Large-scale Signal Transmissin Dr. Koichi Imanaka, OMRON Corporation
11:30 – 12:00 Evolution of the MEMS business models : status of the MEMS industry Mr.J.C.Eloy,Yole Development
12:00 – 12:30 Reliability of the Digital Micromirror Device (DMD) Mr. Andrew B. Sontheimer, Texas Instruments
12:30 – 13:30 ***** Lunch *****

Session 3 : Innovative R & D

Chairman : Prof. Koji Ikuta

- 13:30 – 14:00 The Fabrication of a100gm Co-Orbiting Satellite Assistant (COSA) Dr. Henry Helvajian, The Aerospace Corporation
14:00 – 14:30 Bio Hybrid Nanomachine Assistant Prof. Shoji Takeuchi, The University of Tokyo
14:30 – 15:00 Micro Power Generation Dr. Ryutaro Maeda, National Institute of AIST
15:00 – 15:30 Nano Channel Assistant Prof. Wouter Olthuis, University of Twente
15:30 – 16:00 ***** Break *****

Session 4 : Strategy for Micro/Nano technology (Exploring of new MEMS development)

Chairman : Prof. Hiroyuki Fujita

- 16:00 – 16:10 MEMS and Nanotechnology Industrialization Prof. Koji Ikuta, Nagoya University
16:10 – 16:20 A Practical Use and Industrialization of MEMS in The Company Dr. Atsushi Yusa, Olympus Corporation
16:20 – 16:30 Nano on Micro Prof. Isao Shimoyama, The University of Tokyo
16:30 – 16:40 Two Directions of Development: Commercialization and Nano Frontier Prof. Hiroyuki Fujita, The University of Tokyo
16:40 – 17:50 Panel Discussion (with seven panelists) Chairman: Prof. Hiroyuki Fujita
Panelists: Prof. Nico F. de Rooij, Prof. Stephen D. Senturia, Mr. J. C. ELOY,
Assistant Prof. Wouter Olthuis, Prof. Isao Shimoyama, Prof. Koji Ikuta,
Dr. Atsushi Yusa

Session 5 : Closing

- 17:50 – 18:00 Closing speech Mr. Keiichi Aoyagi, Executive Director, Micromachine Center

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