

# TOPICS

## The 7<sup>th</sup> Micromachine Summit

The 7<sup>th</sup> International Micromachine Summit was held for three days from April 30 to May 2, 2001, in Freiburg, the cultural and economic hub of southern Germany.

The Summit was attended by 72 delegates representing a total of 20 countries and regions. The Japanese delegation consisted of four presenters and five observers.

Based on the principle, "ideas are transferred by the people" the summit gave participants a opportunity to present new information to others, to use in further research or to develop applications in industry. The Summit was jointly chaired by two leading professors from Albert-Ludwig University in Freiburg : Prof. Wolfgang Menz (also director of the IMTEK Research Institute) and Prof. Jan G. Korvink.

The central topic of the 7<sup>th</sup> International Micromachine Summit was MEMS education. The MEMS education programs in some countries are designed to boost numbers of engineers and technicians based on the needs of the marketplace, as exemplified by BASIC (Biology, Automation, Semiconductors, IT, and Communications). The MEMS education program in Japan, was introduced in a presentation on how the Micromachine Center is helping to have a dream and interest held in young children's mind for science and technology through an "annual Micromachine Drawing Contest" and distribution of educational videos on micromachines. The presentation has had

considerable success from the viewpoint of showing charm points of science and technology and drawing eyes of young people through the smallest robots, micromachines. The 8<sup>th</sup> International Micromachine Summit will be held in April next year in Maastricht, Netherlands.



### THE SEVENTH INTERNATIONAL MICROMACHINE SYMPOSIUM

- |   |   |
|---|---|
| <p><b>1. Date :</b> Oct.31 and Nov.1, 2001<br/>         Oct.31 (09:30-17:40, reception 18:00-20:00)<br/>         Nov.1 (09:30- )</p> <p><b>2. Venue :</b> Science Museum, 2-1 Kitanomaru-Koen, Chiyodaku, Tokyo</p> <p><b>3. Admission fee :</b> ¥15,000 (including proceedings, reception)</p> | <p><b>4. Acceptance window :</b> Micromachine Center International Exchange Dept.<br/>         Tel :03-5294-7131 (+81-3-5294-7131),<br/>         Fax:03-5294-7137 (+81-3-5294-7137)</p> <p><b>5. Acceptance closing :</b> Oct. 19<sup>th</sup> (Fri),2001</p> |
|---|---|

#### \*\*\*\*\* PROGRAM (Tentative) \*\*\*\*\*

#### October 31, 2001

9:00 –	Registration	
<b>Session 1 : Opening</b>		<b>Chairman : Mr. T. HIRANO</b>
9:30 – 9:35	Opening Remarks	Mr. Toshiro SHIMOYAMA, Chairman, Micromachine Center
9:35 – 9:42	Guest Speech	Mr. Iwao OKAMOTO, Director-General, Manufacturing Industries Bureau, METI
9:42 – 9:50	Guest Speech	Mr. Tsutomu MAKINO, Executive Director, NEDO
9:50 – 10:30	Special Guest Speech: Micromachine Based Business Model (Tentative)	Prof. Fumio KODAMA, Tokyo University
<b>Session 2 : The Path to Micromachine Industries in the 21st Century</b>		<b>Chairman : Dr. S. HIRAI</b>
10:30 – 10:50	R&D Strategy for Micromachine Technology	Prof. Isao SHIMOYAMA, Tokyo University
10:50 – 11:10	Manufacturing Outlook (Tentative)	Prof. Susumu SUGIYAMA, Ritsumeikan University
11:10 – 11:30	Application for IT (Tentative)	Dr. Hironobu KUWANO, NTT Cyber Solution Laboratories
11:30 – 11:50	Medical Application (Tentative)	Prof. Mitsuo OKANO, Tokyo Women's Medical College
11:50 – 12:10	Integrated Chemistry – State-of-the -Art and Scenario Toward Industrial Innovation	Prof. Takehiko KITAMORI, Tokyo University
12:10 – 13:10	***** Lunch *****	
<b>Session 3 : Activity in Overseas</b>		<b>Chairman : Mr. R. MAEDA</b>
13:10 – 13:40	Status of Five Clusters in EU (Tentative)	Mr. Rob TURNER, Operating Manager, NEXUS
13:40 – 14:10	Radio Frequency Identification	Prof. Heikki SEPPE, Finland, VTT
14:10 – 14:40	MEMS Research Environment	Prof. Yitshak ZOHAR, Hong Kong University of Science and Technology
14:40 – 15:00	***** Break *****	
<b>Session 4 : Innovative R&amp;D</b>		<b>Chairman : Prof. H. FUJITA</b>
15:00 – 15:20	Light Driven Mass Migration in Nano-Hybrid Polymer Films	Prof. Takahiro SEKI, Tokyo Institute of Technology
15:20 – 15:40	Development of Visual Prosthesis	Dr. Toru YAGI, Nagoya University
15:40 – 16:00	Nano-photonics and Micromachine/MEMS	Prof. Satoshi KAWATA, Osaka University
<b>Session 5 : Micromachine in Past Decade and Future Outlook</b>		<b>Chairman : Prof. I. SHIMOYAMA</b>
16:00 – 16:20	Contribution of Micromachine Center(Tentative)	Prof. Hirofumi MIURA, Kogakuin University
16:20 – 16:50	MEMS Development in the Last Decade	Associate Prof. Norman C. TIEN, University of California
16:50 – 17:10	Practical Use of Micromachine in Industry (Tentative)	Dr. Kunihiko HARA, DENSO Corporation
17:10 – 17:30	Micromachine Research in Universities in the Last Decade	Prof. Hiroyuki FUJITA, Tokyo University
18:00 – 20:00	Reception Party at KKR Hotel Tokyo	
<b>November 1, 2001</b>		
<b>Session 6 : Results of Micromachine Technology Project in ISTF Program</b>		
<b>Session 7 : Closing</b>		

*Pictures on the cover : Winning artworks in the Micromachine Drawing Contest  
 Micro-Pupfish, Mr.Ripe-Fruit, Schedule Diary for the Future, Micromachines Bring Hope (from top to bottom)*

### MICROMACHINE No. 36

**MICROMACHINE** is published quarterly by Micromachine Center (MMC) to promote the international exchange of information related to micromachines, R&D and other technical topics, and is circulated free of charge. Please send your comments about **MICROMACHINE** to the publisher :

Takayuki Hirano, Executive Director, Micromachine Center (MMC)  
 5-F, Niikura Building, 2-2, Kanda-tsukasacho, Chiyoda-ku, Tokyo 101-0048, Japan  
 Tel : +81-3-5294-7131, Fax : +81-3-5294-7137  
 Internet Home Page <http://www.ijnet.or.jp/MMC/>

Change of Address : Please send old address label and new address to the publisher.  
 Editorial and Production Management : Japan Technical Information Service (JATIS)  
 Date of Issue : August 17, 2001

© All Copyrights Reserved by MMC

