2. Overview of concurrent conferences

The 14th International Micromachine / Nanotech Symposium (1) Purpose

The International Micromachine / Nanotech Symposium is held to promote the growth of MEMS related industries and improve the international competitiveness of the key components manufactured in Japan. The symposium includes the exchange of information with micromachine and nanotech researchers who are promoting research and development on the front lines of leading-edge technical fields both at home and abroad, and it also provides MEMS researchers from Japan and overseas countries with the latest information and a venue for discussion. The theme of the 14th International Micromachine / Nanotech Symposium is " Technology Convergence MEMS: LSI, Nano and Bio," and features issues such as LSI/MEMS integration efforts and their application and next-generation BEANS process technologies and the prospects for these technologies.

(2) Program

The 14th International Micromachine / Nanotech Symposium

- International Exhibition focusing on MEMS, Nanotechnology, Ultraprecision / Microfabrication and Biotechnology -

Date & Time: July 29, 2008 (Tuesday) 10:00 a.m. - 6:10 p.m. Venue: Tokyo Bay Ariake Washington Hotel (Iris Banquet Hall)

Sponsor: Micromachine Center

Support (planned): Ministry of Economy, Trade and Industry (METI), New Energy and Industrial Technology Development Organization (NEDO) Cooperation (planned): The Japan Machinery Federation / Japan Robot Association / Japan Analytical Instruments Manufacturers Association

	Opening	Chair: Keiichi Aoyagi, Micromachine Center
10:00-10:05	Opening Remarks	Tamotsu Nomakuchi, Micromachine Center
10:05-10:10	Guest Speech Takes	ni Yoneyama, Industrial Machinery Division, Manufacturing Industries Bureau, METI
Keynote Session	Technology Convergence on MEMS	Chair: Hiroyuki Fujita, The University of Tokyo
10 : 10 - 10 : 55	MEMS Industrialization Perspective in Japan	Hidetoshi Kotera, Kyoto University
10 : 55 - 11 : 40	Integrated Micro/nanosystems - Technology and Applications	Roger T. Howe, Stanford University
11 : 40 - 12 : 40	Lunch	
Session 1	MEMS LSI Integration	Chair: Seiji Samukawa, Tohoku University
12:40-13:10	CMOS/MEMS Integration from Foundry Standpoint	Albert Chang, Asia Pacific Microsystems (APM)
13 : 10 - 13 : 40	MEMS and CMOS - Cooperation and Integration	Yoshiaki Toyoshima, Toshiba Corp.
13:40-14:10	Opportunities and Challenges for MEMS at 200 mm	Wilbur Catabay, Silicon Valley Technology Center
14 : 10 - 14 : 40	"FineMEMS" Project: Highly Integrated and Complex MEMS	Susumu Sugiyama, Ritsumeikan University
14:40-14:50	Break	
Session 2	MEMS Emerging Applications	Chair: Kazuyoshi Furuta, Seiko Instruments
14 : 50 - 15 : 20	Emerging Micro / Nano Applications from Euro	Uwe Kleinkes, IVAM
15:20-15:50	MEMS MEMS Microphone and 8 inch manufacturing	Yoshio Sekiguchi, Omron Corp.
15 : 50 - 16 : 20	MEMS Applications on Biotechnology and Sensing	Ryo Ota, Olympus Corp.
16 : 20 - 16 : 30	Break	
Session 3	Emerging Technology BEANS	Chair: Takashi Usuda, AIST
16:30-17:00	MEMS and innovative nano-patterning	Jouni Ahopelto, VTT
17:00-17:30	Nano-structure Design Using Protein	Ichiro Yamashita, Matsushita Electric Industrial
17:30-18:00	Realizing High Efficiency Overcoming the Material Limitation in Thermoelectric Power Generation	Using Nano-structure Koji Miyazaki, Kyushu Institute of Technology
Closing		
18:00-18:10	Closing Remarks	Keiichi Aoyagi, Micromachine Center

Japanese-German Micro / Nano Business Forum

(1) Purpose

The Japanese-German Micro/Nano Business Forum has been held annually in Japan since 2003. This year's forum, the sixth, will be held for the first time concurrently with and within the same venue as the Micromachine/MEMS Exhibition. The forum is sponsored by the IVAM Microtechnology Network, an organization set up in 1993 in the North Rhine-Westphalia (NRW) province of Germany with the objective of promoting networking among small and medium-sized microtechnology companies. The forum introduces state-of-the-art technical developments in Japan and Germany, two countries that lead the world in the microtechnology field.

(2) Program

Opening (Registration Starts 10:30 -)

Japanese-German Micro / Nano Business Forum

(Attendance free / Simultaneous interpretation provided)

Date & Time: July 30, 2008 (Wednesday) 10:30 a.m. - 5:00 p.m. Venue: Tokyo Big Sight (Tokyo International Exhibition Center, West Hall 1) 19th Exhibition Micromachine/MEMS special venue

Sponsor: IVAM Microtechnology Network

Cosponsor: Micromachine Center / MEMS Industry Forum

		(Attendance nee 7 Simulaneous interpretation provide
10:45-11:00	Opening Remarks	
Session 1	Solutions for Production of Microsystems	
11:00-11:20	Electrical vias for multi-stack MEMS and packaging issues	Michael Schilling, Plan Optik AG (Germar
11 : 20 - 11 : 40	Equipment Solutions for Automatic Assembly of Microsystems	Manfred Glantschnik, Datacon Technologies (Austr
11:40-12:00	Micro machining system for cutting and laser processing	Naoki Iwamura, Leybold Co., Ltd. (Japan) / Kugler GmbH (Germar
12:00-13:00	Lunch	
Session 2	Business development for Micro and Nano	
13:00-13:40	Innovations for industry- market chances for micro and nano in Europe	Dr. Uwe Kleinkes, IVAM Microtechnology Network (Germar
13:40-14:00	Technology Transfer Europe-Japan	Dr. Robert Harrison, 24IP LAW GROUP Sonnenberg Fortmann (German
14:00-14:20	MEMS Industry Forum plays a key role of technology and business development on microtechnology in cooper	ation with the academia and the government Junji Adachi, Micromachine Cen
14:20-14:40	- to be announced -	Dr. Heiko Kopf, MST. factory Dortmund (Germar
14:40-15:00	Break	
15:00-15:20	- to be announced -	
Session 3	Innovation in Measuring and Analysis	
15:20-15:40	- to be announced -	
15:40-16:00	Optical 3D Surface Measurement Tools for Micro Production	Heinz-Peter Hippler, NanoFocus AG (Germar
16 : 00 - 16 : 20	Complex Miniaturized Analysis System for Nuclear Magnetic Resonance Spectroscopy	Stefan Leidich, Fraunhofer IZM (Germar
Closing		
16:20-16:40	Towards successful MEMS business by open collaboration	Prof. Masayoshi Esashi, Tohoku Univers
16:40-17:00	Q & A	