

(2) Program

The 13th International Micromachine/Nanotech Symposium —MEMS Frontier: Innovative Devices by Micro and Nano-Bio Fusion Create New Lifestyles—		
Date & time: Thursday, July 26, 2007 9:00 a.m. - 6:00 p.m. Venue: Tokyo Bay Ariake Washington Hotel Sponsor: Micromachine Center Supporters: Ministry of Economy, Trade and Industry (METI) / New Energy and Industrial Technology Development Organization Cooperators: The Japan Machinery Federation / Japan Robot Association / Japan Analytical Instruments Manufacturers Association Registration Fee: 20,000 yen		
Opening		Chair: Keiichi Aoyagi, Micromachine Center
9 : 00 – 9 : 05	Opening Remarks	Tamotsu Nomakuchi, Micromachine Center
9 : 05 – 9 : 10	Guest Speech	Taizo Takahashi, Industrial Machinery Division, Manufacturing Industries Bureau, METI
Keynote Session	MEMS Frontier	Chair: Nobuyuki Moronuki, Tokyo Metropolitan University Co-Chair: Kazuyoshi Furuta, Seiko Instruments Inc.
9 : 10 – 9 : 55	BEANS:Hetero-Functional Integrated Device Impacting the Society in 20 Years	Hiroyuki Fujita, The University of Tokyo
9 : 55 – 10 : 40	The Next Generation Micro/Nano Devices	Prof. Luke Lee, Berkeley Sensor & Actuator Center, UC Berkeley
10 : 40 – 10 : 50	Break	
Session 1	BEANS for Environment and Energy	Chair: Norihisa Miki, Keio University
10 : 50 – 10 : 55	Possible Applications to Environment and Energy	Norihisa Miki, Keio University
10 : 55 – 11 : 25	Micropower for Autonomous Wireless Sensor Nodes	Gyselinckx Bert, Holst Centre, IMEC
11 : 25 – 11 : 55	Large Area Applications and Micro-Nano Printing	Takao Someya, The University of Tokyo
11 : 55 – 12 : 25	Frontier of Organic Photonics Devices	Chihaya Adachi, Kyushu University
12 : 25 – 13 : 55	Lunch	
Session 2	Beans for Security and Secure Society	Chair: Masakazu Sugiyama, The University of Tokyo
13 : 55 – 14 : 00	Possible Applications to Security and Secure Society	Masakazu Sugiyama, The University of Tokyo
14 : 00 – 14 : 30	The World's Smallest and Thinnest IC Tag Chip	Mitsuo Usami, HITACH,LTD.
14 : 30 – 15 : 00	Physical Sensors Drive MEMS Consumerization Wave	Benedetto Vigna, ST Microelectronics
15 : 00 – 15 : 30	Development of Deep-UV and Terahertz Semiconductor Emitting Devices and their Applications	Hideki Hirayama, RIKEN
15 : 30 – 16 : 00	Enabling Nanoparticles and Composites: A Pathway to Products	Nobuyuki Kambe, NanoGram Corp.
16 : 00 – 16 : 10	Break	
Session 3	BEANS for Healthcare and Welfare	Chair: Shyoji Takeuchi, The University of Tokyo
16 : 10 – 16 : 15	Possible Applications to Healthcare and Welfare	Shoji Takeuchi, The University of Tokyo
16 : 15 – 16 : 35	Desired Devices to Innovate Transplant Medicine	Teru Okitsu, Kyoto University
16 : 35 – 16 : 55	Neurosurgery of Tomorrow	Kensuke Suzuki, University of Tsukuba
16 : 55 – 17 : 25	Forefront of Implantable Medical Devices	Prof. Yogesh B, Gianchandani Center for Wireless Integrated Microsystems, University of Michigan
17 : 25 – 17 : 55	Development of Bio/Nano Hybrid Platform Technology for Measuring Cell Functions and Regenerative Medicine	Hidetoshi Kotera, Kyoto University
Closing		
17 : 55 – 18 : 00	Closing Remarks	Keiichi Aoyagi, Micromachine Center