

# The 19th International Micromachine Nanotech Symposium

## Now and the Future of Structure Challenging Sensor Network System (Social Infrastructure, Medical Use, Agriculture)

13:30 ~ 16:45 Wednesday July 3, 2013 East Hall 2, Nano Micro Biz 2013, Seminar Room

Chair: Prof. Isao Shimoyama, University of Tokyo

Presented by Micromachine Center

Free of Charge

Japanese-English, English-Japanese Simultaneous Interpretation

Opening		
13:30 ~ 13:35	Opening Remarks	Koichi Imanaka Chairman, NMEMS Technology Research Organization
13:35 ~ 13:40	Guest Speech	Industrial Machinery Division, Manufacturing Industries Bureau, METI
Keynote 1 & 2      Sensor Network System leads the Social Change		
13:40 ~ 14:10	Smart Autonomous Systems Enabled by Zero Power Technologies - the Guardian Angels for a Smarter Life vision	Prof. Adrian M. Ionescu Nano Devices Laboratory, Ecole Polytechnique Federale de Lausanne, Switzerland
14:10 ~ 14:25	Sensor Network System for Quality of Future Society	Prof. Isao Shimoyama University of Tokyo Japan
Session 1      Now and the Future of Sensor Network System in Social Infrastructure		
14:25 ~ 14:50	The Importance of Maintenance in the Social Infrastructure(Bridges, Roads and so on ) and Expectation to Sensors	Prof. Yozo Fujino Department of Civil Engineering, University of Tokyo Japan
14:50 ~ 15:10	Sensor Cluster for Public Infrastructure	Prof. Albert P. Pisano Berkeley Sensor & Actuator Center University of California, Berkeley USA
Session 2      Now and the Future of Sensor Network System in Medical Use and Healthcare		
15:10 ~ 15:35	24-hr monitoring system of human hemodynamics: Clinical Implication and Perspectives	Prof. Kazuomi Kario Jichi Medical University, Japan
15:35 ~ 16:00	MEMS and Sensors: Some Expected Trends in Medical and Quality-of-life Applications	Dr. André ROUZAUD Deputy VP for Microsystems and 3D Integration, Silicon Components Division, CEA-Leti France
Session 3      Now and the Future of Sensor Network System in      Agriculture		
16:00 ~ 16:20	Sensors and sensor networks in high-tech horticulture(plant factory) in the Netherlands	Dr. Paul op den Brouw, Counsellor Science and Technology, Embassy of the Kingdom of the Netherlands
16:20 ~ 16:40	The Utility of a Massive Scale Sensor Network in the Stock-Breeding Industry	Dr. Eng. Toshihiro Itoh, Deputy Director National Institute of Advanced Industrial Science and Technology, Japan
Closing		
16:40 ~ 16:45	Closing Remarks	Keiichi Aoyagi Executive Director, Micromachine Center