Micro/Nano 2007

Hosted by Micromachine Center (MMC)

To more effectively promote industry interchange in micro/nano fields (micromachine, MEMS, etc.), the Micromachine Center (MMC) will sponsor "Micro/Nano 2007," a series of events relating to the micromachine and nanotech industries. Micro/Nano 2007 will be held for three days July 25 - 27 (Wednesday - Friday), 2007 at Tokyo Big Sight , Tokyo. The purpose of Micro/Nano 2007 is to provide an overview of the latest technical and industrial trends in micro/nano fields and to serve as a forum for efficient networking between micro/nano organizations and companies from Japan and overseas nations.

1. Micro/Nano 2007 Events

Micro/Nano 2007 Events

Exhibition

18th Micromachine/ MEMS Exhibition

International exhibits on ultra-fine and fine processing, MEMS and nanotechnology

Date & time: July 25 - 27 (Wednesday - Friday), 2007 10:00 a.m. - 5:00 p.m.

Venue: Tokyo Big Sight (West No. 3 & 4 Halls)

Conferences

◆**13th International Micromachine / Nanotech Symposium**

Date & time: Thursday, July 26, 2007 9:00 a.m. - 6:00 p.m.

Venue: Tokyo Bay Ariake Washington Hotel (Iris)

◆**MEMS Forum**

Date & time: Wednesday, July 25, 2007 10:00 a.m. - 4:45 p.m.
Friday, July 27, 2007 10:00 a. m. - noon
(international standardization session)

Venue: Tokyo Big Sight
(special venue set up within West No. 3 Hall)

◆**Fine MEMS Project Interim Achievements Seminar**

Date & time: Friday, July 27, 2007 1:00 p.m. - 4:30 p.m.

Venue: Tokyo Big Sight
(special venue set up within West No. 3 Hall)

2. Overview of conferences

◆13th International Micromachine/Nanotech Symposium

Host organization: Micromachine Center Organizer: Mesago Messe Frankfurt

Support: Ministry of Economy, Trade and Industry (METI), New Energy and Industrial Technology Development Organization (NEDO)

(1) Purpose

According to strategic scenarios for the future development of MEMS technologies and market expansion in the MEMS industry, in the near term the key lies in shifting development efforts from single-function devices to multifunction devices (fine MEMS). Technical development should also focus on the frontiers of future MEMS devices that will support lifestyle creation in such areas as environment / energy, health / medical care, and comfortable living spaces. Specific technical development issues have been grouped into four categories:

① Artificial photosynthesis, energy absorption and other devices needed to create a completely recycling-based society (GREEN devices)
② In vitro self-propelled diagnostic and treatment devices designed to achieve ultra-minimally invasive medical treatment and preventative medical care (WHITE devices)
③ Five-sense sensors and autonomous decentralized sensor network devices designed to achieve comfortable living environments (BLUE devices)
④ Process integration for the creation of these future devices

Accordingly, the subtitle of the 13th International Micromachine/Nanotech Symposium will be “The Future of MEMS: Revolutionary Devices Made Possible by the Fusion of Micromachining and Nano/biotechnology.” The symposium will invite top researchers from throughout Japan and overseas nations who have produced significant achievements in these fields to talk about cutting-edge technologies in their areas of speciality.