
Micromachine Center Booths Planned for Exhibition Micromachine/MEMS 2010

MEMS Concierge Corner and Job Matching Support Plaza

A MEMS Concierge Corner will be provided in the Micromachine Center (MMC) booth, to one side of the reception counter. Visitors can consult with the Concierge Corner for directions on where to go, such as when they are interested in something specific but don't know where to find it or when they want to compare a specific device produced by various companies, and the concierge service will guide them to the appropriate booths. Please don't hesitate to drop by with your questions.

This year for the first time, an experimental Job Matching Support Plaza will be set up near the MMC booth. The Plaza is designed to serve as a place for students interested in micro/nano-related industries to learn about companies looking to hire outstanding talent. Company and employment information will be posted in the Job Matching Support Plaza, enabling students (visitors) to directly visit the booths of companies they are interested in, collect information, and get a feel for the company and the type of work available. For companies, the Plaza may simply offer the benefit of employment-related publicity, but we anticipate that it will provide them opportunities to get in contact with potential employees.

MemsONE Booth

MemsONE is a design tool that provides powerful support for MEMS design and manufacturing processes and is an indispensable tool for MEMS experts, but easy enough to use for beginners with little experience in MEMS. This marks the third year since full-fledged MemsONE dissemination activities began. During this period, versions 1.1, 2.0, and 3.0 of the product have been released, giving MemsONE enhanced, more powerful functions and greater stability. Version 3.0 released in January this year has even more improvements in analysis capabilities and user-friendliness. To further promote and disseminate MemsONE, a consultation corner will be provided at the MemsONE booth for use support. In addition, the academic version of MemsONE will be offered for a limited time at no charge, and the product will be promoted through videos and computer demonstrations. Updated information on the MemsONE functions will also be provided at the MEMS Industry Forum Workshop.

MEMS Mall Booth

The MEMS Mall is a Web site that enables MEMS-related companies to introduce their MEMS products and technologies on the Internet. On the MEMS Mall Web site, companies involved in MEMS manufacturing-related fields can provide information on MEMS devices and applications, biomedical-related products, MEMS manufacturing equipment, nanoimprint technology, MEMS design tools, foundry services, evaluation, measurement, and inspection equipment, and materials.

Individual company data on the MEMS Mall Web site may also include a link to the company's home page, with the idea of connecting MEMS users to suppliers over the Internet. The member companies of the MEMS Industry Forum make up the core of registered companies, but participation in the Mall is open to other companies for a fee. The MEMS Mall booth will also feature computer terminals connected to the Internet, allowing visitors to access and explore the Mall.

MEMS Foundry Network Booth

The MMC manages the Web site for a MEMS foundry network. The Web site introduces users to companies that provide foundry services and also offers a service called MEMStation. MEMStation functions as an intermediary service for potential clients who are looking for companies that provide a particular service.

At the Exhibition Micromachine/MEMS, we have plans for an exhibit that will introduce the types of services offered by companies participating in the MEMS foundry network, as well as information on how MEMStation works and how to get the most out of it. We have also expanded the services available through MEMStation. This year we have introduced follow-up counseling whereby, if companies registered with the MEMS foundry network are unable to meet a client's needs, the MMC in cooperation with the National Institute of Advanced Industrial Science and Technology (AIST) will investigate and recommend companies capable of filling this need. In addition, the booth will include panel exhibits and information on the MEMS foundry network.

Standardization Booth

This booth presents the current status of standardization in the MEMS industry. To promote international standardization activities in the MEMS industry in a more strategic manner, the MMC has established a roadmap for MEMS standardization, and standardization activities are being conducted in accordance with this roadmap. The booth showcases the international standards that Japan has proposed and established to date, including a tensile testing method of thin film materials, a thin film standard test piece for tensile testing, and axial fatigue testing methods of thin film materials, in addition to drafts that are currently being reviewed by the International Electrotechnical Commission (IEC), such as a method for fatigue testing thin film materials using the resonant vibration of a MEMS structure, wafer-to-wafer bonding strength measurement for MEMS, and bonding strength tests for thin film materials and standard test pieces for calibration. The booth will also introduce the current status of drafts currently under development for micro-gyroscopes, electronic compasses, and methods of measuring microscale structures, and will display the actual publications that have already been issued for MEMS-related international standards and JIS standards.

MEMSPedia Booth

The Highly Integrated, Complex MEMS (Fine MEMS) Production Technology Development Project produced a database storing knowledge data (1500 entries) sorted by keywords used in the Fine MEMS Project and patent data (4500 entries) sorted by R&D topics, and a MEMS equivalent circuit generator for generating models that are capable of simulating MEMS operations with a circuit simulator. In June 2009, these data and tools were made available to the general public on the Internet as an encyclopedia called MEMSPedia, which includes knowledge data, design tools, and a variety of open content. During the approximate one-year period since MEMSPedia was made public, the database has been accessed more than 670,000 times, and the number of users is expected to continue to grow. The MEMSPedia booth provides descriptions of the knowledge database and the MEMS equivalent circuit generator and instructions on using these tools through panel exhibits and computer terminals that are available for the visitors' convenience.