

# MemsONE Dissemination and Use

## MEMS System Development Center

The MemsONE Project was initiated in FY 2004 with the goal of creating a software infrastructure to support the promotion and development of MEMS industries. The project ended in FY 2006 with the achievement of a beta version of MemsONE. An effort was made to ensure widespread dissemination of MemsONE throughout Japan during the term of the project.

Accordingly, a project to disseminate the achievements of the MemsONE Project was commissioned by the New Energy and Industrial Technology Development Organization (NEDO). The project has been renewed for this fiscal year as well and is currently underway. In order to establish an infrastructure for dissemination, the project is placing special emphasis on the following four efforts:

### 1) Activities to disseminate the MemsONE beta version

Widespread distribution of the MemsONE beta version (achieved by the MemsONE Project) to users in Japan, in order to secure users, determine user needs and the status of use, and reflect the results in future dissemination activities

### 2) Improvement and enhancement of MemsONE functions

Improvement and enhancement of those functions whose improvement is a matter of particular urgency, based on the results of the dissemination study and the evaluation survey of the alpha version (the version distributed as the midterm project achievement)

### 3) Achievement dissemination and user support activities

Provision of user assistance in the form of hands-on regular workshops and seminars, held primarily in major metropolitan areas

(User assistance regarding operational and technical aspects of the beta version is seen as essential for the dissemination of project achievements.)

### 4) Study activities for purposes of dissemination

Establishment of foundry services as manufacturing centers that can take the place of manufacturing equipment (which entails a large initial investment burden) in order to achieve widespread dissemination of MemsONE and effect a broad-based expansion of MEMS industries

With regard to topic 1), distribution of the beta version began in early June, and the beta has been introduced to companies, universities and research institutions and in publicly-run trials and so on. So far,

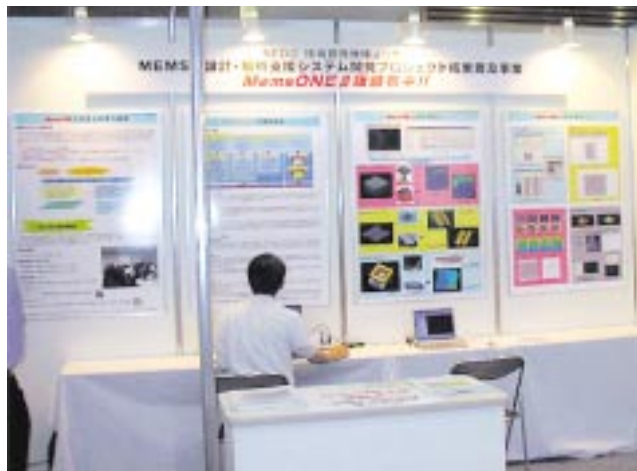
more than 400 licenses are in use. To distribute the beta version, various types of email messages were sent to relevant entities. In addition, the beta was released on the Committee's website and was exhibited at Exhibition Micromachine / MEMS and the International Robotics Exhibition. A video was also used to introduce MemsONE functions, and the beta version was further publicized through the use of panel exhibitions and the distribution of pamphlets. As a result, the goal of at least 450 licenses is expected to be achieved.

With regard to topic 3), technical support for users with regard to operational procedures and analysis is thought to be indispensable in order to ensure widespread dissemination of MemsONE throughout Japan. The most effective type of user support is the holding of workshops with an environment in which the beta version is already installed on multiple PCs. This beta version installed on actual PCs is used to provide guidance to users regarding GUI operations and analysis procedures. It is hoped that such hands-on workshops will help disseminate the project's achievements. In order to hold these workshops, a classroom with at least 30 PCs was needed, and this was made possible through the provision of classrooms at the University of Tokyo and Kyoto University. Three courses were prepared – a basic course and Applied A and B courses – and the courses have been held since July; plans call for the courses to be held six times at the University of Tokyo and four times at Kyoto University. The courses so far have been attended by 130 persons, and judging from survey results the courses seem to have been effective. Moreover, in addition to these regular workshops, two workshops have been held at the request of other institutions in which the students (60 in all) brought their own PCs, and this has also helped to expand the number of MemsONE beta version users.

It is hoped that the promotion of these topics will have a beneficial impact on future product development. Accordingly, the topics will be promoted with care and energy.

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Micromachine Exhibition



Hands-On Workshop (held at The University of Tokyo)