



10th Micromachine Summit

3rd-5th May, 2004

Abstract from the Chairman, Gaëtan Menozzi



Year 2004 was a very special year for the Micromachine Summit. In addition to the fact that 2 years had passed since the last Summit, a larger number of participants and the attendance of two new delegations gave the presentations a very dense contents as well as an enriched and broader view on the evolution of the MEMS field worldwide.

Indeed, 18 delegation and 109 people attended the Summit representing:

- The countries and regions involved in former MMS: Germany, Australia, Benelux, Canada, China, Korea, France, Japan, Singapore, Switzerland, Taiwan, the United Kingdom, the USA, Mediterranean countries (Italy, Spain, Greece) and Nordic Countries (Norway, Finland, Sweden, Denmark)
- Two new invited delegations: India and Israel
- A European delegation led by European Commission representatives and including representatives from NAS (Newly Associated States as Poland, Romania...)



The programme of this 10th Micromachine Summit was faithful to tradition. A significant part of the first day was dedicated to *Country reviews*, where each delegation had the opportunity to present their 2-year evolutions in the education field as well as in infrastructures for R&D. As a conclusion of this first session it was outlined that it would have been interesting to compare the R&D budgets on each country or region.

Then followed detailed presentations of remarkable programmes launched since 2002 during the session called *Government policy, National programmes and Infrastructures*. More particularly, Dirk Beernaert, Head of Unit 5 at IST - DG INFSO presented the 6th Framework Programme in Research and Development.

This first day ended with a brief session on *Education*. The Nordic countries and Australia provided the assembly with an interesting benchmark study of different educational models.

The 4th of May morning was dedicated to *Industrial developments in MNT*. Not only did this session offered successful companies the opportunity to present new products based on Micro and Nano technologies, but it also allowed them to explain their business models and marketing strategies.

It provided the assembly with the keys to compare the models of 3 radically different MNT manufacturers such as a captive foundry subsidiary of a large systems manufacturer, a private MEMS company and a public one.

The afternoon session called *Future Outlook* focused on ambitious research projects mostly lead by major institutes in the field of Nano for MEMS, biomedical, biotechnologies and biometrics.

The last day was dedicated to a technical tour proposing the visits of SOITEC, TRONICS Microsystems and CEA Léti. In parallel, a meeting devoted to the launch of a World Wide MEMS Club was held, initiating the creation of a network between all MNT associations from the different countries.

This 10th Micromachine Summit was very interesting and dense. Beyond the usual global overview that this very special meeting provides to its participants, it showed a very strong interest in nanotechnologies: indeed, all the programmes presented in the *country review* were dedicated to nano, totally or partially. In terms of research areas, participants could sense a predominant interest in MEMS for defence and in biotechnologies mainly.



Pictures from the sessions



Gaëtan Menozzi, chairman of NEXUS
Emmanuel Bigler, CNRS / FEMTO-ST





Social events

The social events were organized in the area of Grenoble at Chateau de Sassenage and in the mountain dominating Grenoble. It was a great opportunity for the participants to know better each other and to create relations.



In front of Château de Sassenage



Coffee Break



Welcome speech at Château de Sassenage

Bernard Barbier, Director of Léti
 Gaëtan Menozzi, chairman of NEXUS
 Geneviève Fioraso, Ville de Grenoble



Signature of Memorandum of Understanding

Siak Piang Lim, National University of Singapore
 Gaëtan Menozzi, chairman of NEXUS
 Dan Gale, CMC



Château de Sassenage



Arrival in La Bastille



Prof. ZhaoYing Zhou admiring the view



Night view of Grenoble from La Bastille