

And now, where do we go?

Bernard COURTOIS
CMP
46 Avenue Felix Viallet
38031 Grenoble Cedex - France
Bernard.Courtois@imag.fr

Service Organizations providing ICs and MEMS manufacturing for the Education of the Microelectronics community have been successful over the last 20 years, over almost the last 30 years for a few of them. But new challenges must be addressed, considering milestones reached by the microelectronics industry and society needs.

The talk will advocate for the future along 3 main directions:

- how to cope with more than Moore opportunities for the affordable manufacturing of ever more complex systems;
- cooperate with other communities;
- address important application areas.

The first direction will detail opportunities for the short term, mid term, long term. These opportunities will be addressed by CMP in the months/years to come.

The second direction will be exemplified by the BioMed community. That community could take advantage of infrastructure services like the microelectronics community could take advantage of the VLSI revolution of the 80s. Examples of BioMed applications using ICs and MEMS will be given, as well as examples of multidisciplinary samples in various countries.

The third direction will be exemplified by energy issues. Energy management is a major issue for the world. Electronics is a major component for the generation, the conversion, the use, the storage of energy. Several domains will be reviewed like equipment, buildings, lighting, transport, industry. Such a topic complements the other important topic for ICs and MEMS themselves, mainly the design of low-power devices. Other important application areas will be mentioned.

The conclusion will comment on Education in the frame of the global economy.