

International Micro-Nano Roadmap 2nd Edition

Acknowledgements

This roadmap is a “*living document*” which now has a six-year history that has been compiled by well over 400 people now from 5 continents. This roadmap is based on the process of generation the first international Microsystems, MEMS, micromachining and Top-Down Nano roadmap and what our leadership team learned through that process and our continued efforts in developing an understanding of the roadmap process. Many organizations have contributed to this roadmap over the last 6 years and in particular over the last two or the second roadmap would not have become a reality. Finally, the progenitors of this process MANCEF, SEMI, Sandia National Laboratories, IVAM, and COMS 2004 would like to thank the four hundred people involved in this process for their efforts in developing the second international Micro – Nano roadmap.

First there are simply too many people to thank, however, we acknowledge the core group for each chapter a group of nearly 70 people. We would like to acknowledge you and your colleagues that have provided efforts as chapter leaders and major contributors. You have excelled in your efforts over the past 6 years. For the bulk of you that put in the vast majority of effort the best manner to acknowledge your six years of effort might be to provide you a list of the accolades of your work.

It has been almost one year and eight months since the roadmap was sent out and we would like to let you know how valuable your contribution to the Microsystems community. Moreover, congratulations are always in order for a job of this magnitude attempted but rarely can we congratulate those who perform those efforts through the demonstrated their effectiveness Here we have the good fortune to not have one but three key measures that demonstrate the effectiveness of your work.

- First, we are now almost completely sold out of the first printing of Roadmaps. If we are about commercialization and assisting you in that process then this surely is an important measure of the efficacy of your efforts. Again we thank you.
- Second, we have a number of responses attesting to the value that customers (fellow Micro and Nano systems) found in your efforts in the roadmap. To date we do not have a single negative response from a customer. Please find a few of the numerous statements concerning the roadmap both anonymous and cited below:



“The roadmap and the process which I was involved in (to generate it) was hugely important in our firm’s foundation and strategic formulation.” Dr. Doug Elerath
President HT Micro

“We used the roadmap was used to help us through a series of questions in developing our own company directions “ Advanced System Automation, Singapore

“Bookham Technology has been using the First Edition of the MANCEF International MEMS and Top-Down Nano Roadmap since it's introduction in 2002. Given the tumultuous nature of the telecom market in the last 4 years, developing and maintaining a MEMS strategy has been challenging to say the least. I just wanted to write a quick note to thank you and the rest of the MANCEF Roadmap Committee for providing a resource and an international perspective. We have been able to identify key vendors, process technologies, and improved our integration strategy using this document.” Ryan M. Hickey, MEMS Design Prime, Bookham Technology Ottawa

- Third, your roadmap effort was recognized by road mapping professionals as an exemplar for emergent and disruptive technology road mapping.

*“As the editor of the international journal **Technological Forecasting and Social Change** I encouraged the development of a double issue devoted to (disruptive and emergent vs. sustaining technology) Road mapping and the issue was published early this year. Two articles derived from the MANCEF International Roadmap Committee were included in this issue, which has been well received. These articles reflect well on the work of the professionals and your efforts in the area. We look forward to your continued work and use of the knowledge generated in your reports.”* Hal Linstone

Again, it is not often that all of us interested furthering this emerging industry get to thank some of its main contributors for their efforts. Further, it is not often that we can provide such outstanding verification of the value in your efforts. Finally we thank you and provide a certificate of appreciation from MANCEF which will be handed out at COMS 2004 by the COMS committee in the person of Leigh Hill or sent to you should you not be able to attend this years meeting.

Thank you again.

Roadmapping and COMS 2004 Committees
Job Elders, Steve Walsh, (MANCEF co-editors), Bettina Weiss (SEMI), Al Romig, Regan Stinnett, and Don Cook (Sandia National Laboratories), Christina Neuy (IVAM) and Leigh Hill COMS 2004



Sandia National Laboratories

