

microBUILDER Microfluidic Microsystems Manufacturing Cluster

Design your own Microsystems!

Three-Days Design Introduction Course on microBUILDER's microsystems manufacturing services

Time: Oct 23rd, 24th and 25th, 2007, from 09:00 a.m. to 4:00 p.m.

Venue: LAAS-CNRS, Toulouse, France

Accommodation information: Please contact <al-ahmad@laas.fr>

Course aim:

In this course you will learn *how to design* your own microfluidic microsystem or other microsystems, e.g. flow sensors, plastic microfluidics, silicon pressure sensors, gas sensors, accelerometers, optical systems, etc. in the *microBUILDER* technologies and receive your own microsystem device in 9 months.

Course contents:

- What are the microBUILDER microsystems manufacturing services?
- How the SensoNor/MultiMEMS's and Tronic's MPW services are organised. MPW as a part of a product development. Process description. Key features. Limitations.
- How the ThinXXS plastic microsystem manufacturing services are organised.
- How the Add-on services from SINTEF and HSG-IMIT are organised
- Design: Design limitations. Layout rules. Templates (chip-level). Design tools.
- MPW step-by-step: Booking. Design submission. Design check. Mask assembly. Process schedule. Final inspection. Shipment.
- Hands-on design training in the MultiMEMS process with Coventor software.

Target group and skills required:

Engineers, lecturers, students and researchers from companies, universities and institutes interested in learning about the microBUILDER possibilities. This is an introduction course with no specific skills required, but a basic understanding of semiconductor technology or a background in mechanical engineering is recommended.

Lecturer(s):

Highly qualified lecturer(s) from the microBUILDER training partners with hands-on knowledge of the microBUILDER technologies.

Course fees per participant:

Students and academic institutions: Free of charge

Industry and institutes: 100 Euro

Registration or questions:

Send name, title, company, and invoice address to:

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Deadline: 1st October 2007

This course is sponsored by EU's 6th Framework Research Programme.

Course agenda

Day 1		Awareness and Technology
9.00	9.10	Welcome and presentation
9.10	9.40	What is microBuilder
9.40	10.10	Thinxxs
10.10	10.30	Add on processes
10.30	10.45	Break
10.45	11.30	Tronics
11.30	12.00	MPW services in the MicroBuilder project
12.00	13.00	Lunch
13.00	14.45	Tronics and Thinxxs design guidelines, design rules and technology related topics
14:45	15:00	Break
15.00	16.00	MultiMEMS process presentation and description
Day 2		Technology and hands-on training
9.00	10.00	MultiMEMS design guidelines, design rules and technology related topics.
10.00	12.30	Mask-by-mask walkthrough of MultiMEMS flow sensor
12.30	13.30	Lunch
13.30	14.30	Coventor presentations
14.30	14.45	Break
14.45	16.00	Hands-on with Coventor and MultiMEMS
Day 3		Hands-on training
9.00	12.00	Hands-on with Coventor and MultitMEMS continues
12.00	13.00	Lunch
13.00	15.00	Hands-on with Coventor and MultitMEMS continues
15.00	15.30	Demonstration of Coventor/Tronics
15.30	16.00	Feedback forms to be filled out

Contacts:

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Any additional information:

Course material available as password protected electronic files to be downloaded from www.microbuilder.org and www.multimems.com. Password available for those who have signed the microBUILDER non-disclosure agreement.