

# Introduction to MicroSystems Technology and its application



TRAINING



**Target group:** This seminar is an introductory session on Microsystem Technology (MST) and targets all interested professionals, managers, product developers, marketing people working in most fields in industry: from automotive, over electronics, to food, textiles, ... .

**Lecturer:** Bob Puers (KULeuven)

### Date, Time & Program:

*Monday, 1th March 2010, 18h - 20.30h*

Introduction

- MST - MEMS - Micromachines
- MST, general aspects and motivation: miniaturisation, portability, monolithicity, markets (!)
- MST structuring techniques: lithography, deposition and etching, bulk and surface micromachining

*Monday, 8th March 2010, 18h - 20.30h*

MST processing techniques (continued)

- Interconnection, integration
- Bond techniques and packaging
- Problems: outgassing & getters, sticking, drift phenomena

*Monday, 22th March 2010, 18h - 20.30h*

Sensors

- Pressure sensors, flow sensors
- Accelerometers, gyroscopes
- Electrostatic actuation, x-y stages, resonators and RF MEMS

*Monday, 29th March 2010, 18h - 20.30h*

Sensors (continued)

- Thermal sensors and MST
- Optical sensors
- Magnetic sensors
- Gas sensors, chemical and biosensors

**REGISTRATION FORM**

Return this form on fax to + 32 16 28 15 84 or by e-mail to [training@imec.be](mailto:training@imec.be).

NAME: .....

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Wishes to register for the course :

'Introduction to MicroSystems Technology and its application'.

Tick your selection:  1, 8, 22, 29 March 2010

DATE: .....

SIGNATURE: .....

**PAYMENT**

The fee of 400 EURO (Excl. 21% VAT) includes all lectures, a complete set of course notes, and refreshment breaks. A sandwich lunch will be provided during the break.

**Members of COHESI receive a discount of 50 %.**

For more information please contact [cohesi@imec.be](mailto:cohesi@imec.be)

Members of Flemish Universities can attend free of charge. Payment has to be done by bank transfer upon receipt of the invoice. Flemish companies can obtain a 35% discount through the training project of BEA. See [www.beaweb.be](http://www.beaweb.be).

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