

**Micro and
nano-manufacturing**

The meeting will take place on Thursday 8th April 2010 from 9 a.m. to 4 p.m., at the Congress Center Torino Incontra, Giolitti Room, located in Torino (Italy), via Nino Costa. The participation is free of charge. Please register yourself on www.promopoint.to.camcom.it/micro_nano. The deadline for registration is the **7th April 2010**.

**Micro and
nano-manufacturing**

[note organizzative]



CAMERA DI COMMERCIO
INDUSTRIA ARTIGIANATO E AGRICOLTURA
DI TORINO



**Micro and
nano-manufacturing
Market opportunities
and new technologies
for industrial sectors**

**Thursday, April 8, 2010
9 a.m. to 4 p.m.**

Torino Incontra
Congress Center
Giolitti Room
via Nino Costa 8 – Torino, Italy

Info

Innovation Department
Torino Chamber of Commerce
via San Francesco da Paola 24
10123 Torino, Italy
ph. +39 011 571 6320/1/2/3
fax +39 011 571 6324
innovazione.tecnologica@to.camcom.it

[SEMINARI]

Focus and target

The meeting focuses on micro and nano-manufacturing processes, nowadays an industrial reality in traditional or high-tech productive sectors. Main applications will be presented, in the fields such as:

- electronics: Electronic components micro-manipulation for the development measurement devices and actuators
- printed circuit boards production chain: sensing devices applications
- packaging, transportation and logistics: hybrid assembly processes for increasing productivity of RFID devices
- bio-med tech and pharmaceutical applications: sharp and rapid manipulation of cells, a new horizon in the market allowing for dramatic cost and scraps reduction.

The meeting is aimed at companies R&D and quality managers as well as to marketing experts. The topics that will be treated involve industrial sectors like mechanics, micro-electronics, pharma-bio-med-tech, energy and environmental monitoring, food, packaging, technical textile and logistics.

The event is organized by the Torino Chamber of commerce in the framework of the activities undertaken through the European project ALPS Enterprise Europe Network and through Sportello APRE Piemonte.

Micro and nano-manufacturing

Programme

Morning session

- 9 a.m. Opening & Welcome
Guido Bolatto, Secretary General, Torino Chamber of commerce
- 9.15 a.m. Hybrid Assembly: ultra-precise manufacturing of micro-nano devices based on robot positioning and self-assembly
Alexander Steinecker, Csem Sa, Coordinator of EC funded integrated project Hydromel
- 9.30 a.m. Packaging of micro-force sensors and micro-grippers for the electronic and optoelectronic industry
Felix Beyeler, FemtoTools GmbH
- 9.50 a.m. Development of automated, high-throughput and high-yield cell injector system for the biomedical sector
Helmut Knapp, Csem Sa, Section Head Microfluidic & Microhandling
- 10.10 a.m. Sustainable development of Hydromel demonstrators: eco-profile and cost analysis
Massimo Perucca, Diad Group
- 10.30 a.m. Coffee Break
- 10.50 a.m. Nanofuture technology platform and Minam association, leading the way towards a sustainable development of micro and nano-manufacturing techniques
Andrea E. Reinhardt, Ceo, Microtec; Member of Nanofuture steering committee and Minam industrial board
- 11.10 a.m. The global challenge in nano-manufacturing: new business opportunities and products/services
Phil Keenan, Cambridge University
- 11.30 a.m. Mesap, the Piemonte's automation and mecatronic pole: integration of assessed expertise and industrial tradition for the present and future competitive challenges
Dario Scapatucci, Mesap, Unione Industriale Torino

11.50 a.m. Micro and nano-technologies for energy and sensing applications
Fabrizio Pirri, Politecnico di Torino, Latemar Materials and Microsystems Lab, Italian Institute of Technology, Center for Space Human Robotics

12.10 a.m. Chemical and physical processes at nano-structured interfaces and surfaces: from basics to application
Giuseppe Caputo, *Salvatore Coluccia*, University of Torino, Nanostructured Interfaces and Surfaces Centre of Excellence

12.30 a.m. Micro-nano fabrication: an emerging field for industrial applications
Luca Boarino, NanoFacility Piemonte, Electromagnetism Division, National Institute for Metrology Research

12.50 a.m. Lunch

Afternoon session

1.30 p.m. The services of the Torino Chamber of commerce in innovation: the Enterprise Europe Network and the Sportello APRE for Piemonte
Chiara Soffietti, Innovation Department, Torino Chamber of Commerce

1.50 p.m. Seventh framework programme: funding opportunities in nanotechnologies, materials and processes
Marco Mangiantini, Coordinator, ALPS Enterprise Europe Network

2.10 p.m. Poster session and demonstrators exhibition session

4.00 p.m. End of sessions