



CONFERENCE ON  
**MICROMANUFACTURING TECHNOLOGIES**  
**New business opportunities for companies**

**DATE:** 2<sup>nd</sup> July, 2008  
**SCHEDULE:** 9:00h – 18:15h  
**CONFERENCE VENUE:** Garaia Innovation Pole – Mondragon (Basque Country, Spain)

**DIRECTED TO:**

General Managers, Industrial Directors and Project Managers.  
RTD & Engineering Department Managers and Researchers.

**AIM AND THEMES:**

According to main European perspectives, worldwide microcomponents demand will increase significantly in fields such as automotive, medicine, electronics and biotechnology amongst others. The application of microfabrication technologies is consequently strategic to develop new businesses and innovative products in these emerging markets.

The **main goal** of the conference is to...

...present a general view of the existing technologies to manufacture micro-components, describing the possibilities that they offer as well as new application fields.

The following **microtechnologies** will be **presented**:

- MicroEDM
- Mechanical Micromachining
- Laser Micromachining
- Metallic mass-production (microforming & MIM)
- Plastic mass-production (Micro Injection & hot-embossing)
- Metrology and control techniques

For each of those technologies, internationally **prestigious researchers** will describe current state of the art and trends, and satisfactorily developed **industrial applications** will be exposed. Likewise, successful cooperation experiences amongst companies, academia and RTCs will be shown in research projects at Spanish ([Micromanufacturing](#)) and European ([Launch-Micro](#)) national level.

Finally, **commercial sessions** will take place during the coffee breaks and lunch time. Relevant companies from the micromanufacturing field will expose their products to the attendees in the stands. The conference aims to be a forum for companies, research centres and innovation departments in the microfabrication area.

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## CONFERENCE PROGRAMME

09:00	Welcome Reception and handing-out of documents
09:15	Opening ceremony
09:45	<b>MICROMANUFACTURING technologies: general introduction &amp; business expectations</b> Dr. Ivan Gallego, Mondragon Unibertsitatea
10:15	<b>MICROEDM Processes</b> Mr. Atanas Ivanov, Cardiff University
10:45	<b>Industrial application: manufacturing of optic fiber microconnectors</b> Precision mould maker company – MICROSYSTEMS UK, Warrington, Great Britain
11:00	Coffee break – Visit to exhibitors
11:45	<b>MECHANICAL MICROMACHINING Processes</b> Mr. Patxi Aristimuño, Mondragon Unibertsitatea
12:15	<b>Micromachining process monitoring - MICROM</b> Dr. Endika Gandarias, Mondragon Unibertsitatea
12:30	<b>Industrial application: microdie &amp; high value components fabrication</b> Precision mould-maker company – Tallers Fiestas, Terrassa
12:45	<b>Industrial application: manufacturing of dental implants</b> Biomedical and biotechnology company - Biotechnology Institute, Vitoria
13:00	Lunch – Visit to exhibitors
14:00	<b>MASS-PRODUCTION OF METALLIC MICROCOMPONENTS: manufacturing technologies</b> Ms. Miriam Pé, Mondragon Unibertsitatea
14:30	<b>Industrial application: microforming of sheet components</b> Special precision part manufacturer company – Industrias Alzuca, Eibar
14:45	<b>Industrial application: metal injection moulding</b> Metal injection company – MIM-Tech Alfa, Eibar
15:00	<b>MASS-PRODUCTION OF PLASTIC MICROCOMPONENTS: manufacturing technologies</b> Ms. M <sup>a</sup> Eugenia Rodríguez, ASCAMM
15:30	<b>Industrial application: microinjection</b> Health sector injection moulding company – Gema Medical, Barcelona
15:45	<b>Industrial application: development of a new product line - "honey" dental brackets</b> Mr. Alberto Herrero, Tekniker
16:00	Coffee break – Visit to exhibitors
16:45	<b>LASER MICROMACHINING Processes</b> Mr. Jürgen Koch, Laser Zentrum Hannover
17:15	<b>Industrial application: laser micromachining</b> Company specialised in Automation Technologies – Mondragon Assembly, Aretxabaleta
17:30	<b>METROLOGICAL DEMANDS for microtechnologies</b> Dr. Oltman Riemer, Bremen University
18:00	Conference closure Dr. Ivan Gallego, Mondragon Unibertsitatea
18:15	Optional visit: Micromanufacturing laboratory Tour - Mondragon Unibertsitatea (45 min.)

**EXHIBITOR COMPANIES:**

- BATTENFELD	- KENDU	- RENISHAW	- LEICA
- ROFIN-BAASEL	- UNION TOOL	- EROWA	- ZEISS
- SODICK	- IMCAR-HITACHI	- BLUM NOVOTEST	- SARIKI
- HIRSCHMANN	- VAN HOORN	- MITSUBISHI	- TECMICRO

**GUEST SPEAKERS:****Academia & Research Institutes:**

- Dr. Ivan Gallego (Mondragon Unibertsitatea)
- Mr. Atanas Ivanov (Cardiff University)
- Mr. Patxi Aristimuño (Mondragon Unibertsitatea)
- Dr. Endika Gandarias (Mondragon Unibertsitatea)
- Ms. Miriam Pé (Mondragon Unibertsitatea)
- Ms. M<sup>a</sup> Eugenia Rodríguez (ASCAMM)
- Mr. Jürgen Koch (Laser Zentrum Hannover)
- Dr. Oltman Riemer (Bremen University)
- D. Alberto Herrero (Tekniker)

**Companies:**

- Microsystems UK
- Tallers Fiestas
- Biotechnology Institute
- Industrias Alzuca
- MIM-Tech Alfa
- Gema Medical
- Mondragon Assembly

**SUSSCRIPTION DEADLINE** 18<sup>th</sup> June 2008.**Extended deadline to 27<sup>th</sup> June 2008 !!****CONFERENCE REGISTRATION**

Registration fee (VAT included): 200 €  
Micromanufacturing and Launch-Micro members: 100 €

The conference fee includes: Handing-out documents.  
2 coffee breaks and lunch.  
Simultaneous translation service.  
Attendance to conference talks and laboratory tour.

**Payment procedure:**

Payment must be made by bank transfer addresses to: **Conf. Micro "name & surname"**

Bank details: IBAN: ES47 3035 0001 50 00100 10286

SWIFT: CLPEES2M

Adress: Iturriotz s/n, 20500 Mondragon, Spain

(Please forward a copy of the bank deposit slip via fax at +34 943 79 15 36).

**Registration bulletin:**

To finish registration, please fill the form which is on the conference website  
[www.eps.mondragon.edu/conference-micromanufacturing](http://www.eps.mondragon.edu/conference-micromanufacturing)

For further general information please contact: Ms. Isabel Mangana, [imangana@eps.mondragon.edu](mailto:imangana@eps.mondragon.edu)

Or via phone at (+34) 943 79 47 00

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