DATE: 2nd 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.

Organised by

Sponsored by

[Logo of Mondragon]  
[Logo of Micromanufacturing]  
[Logo of Launch-Micro]
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Welcome Reception and handing-out of documents</td>
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<tr>
<td>09:15</td>
<td>Opening ceremony&lt;br&gt;&lt;br&gt;Mrs. M. Carmen Vicente, Area Manager: <em>Industrial Design and Production</em>. General Vice-Management of Technical Research Promotion Programs, Ministry of Science and Innovation&lt;br&gt;Dr. Carlos García, Research Manager, Mondragon Unibertsitatea</td>
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<tr>
<td>09:45</td>
<td><strong>MICROMANUFACTURING technologies: general introduction &amp; business expectations</strong>&lt;br&gt;Dr. Ivan Gallego, Mondragon Unibertsitatea</td>
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<td>10:15</td>
<td><strong>MICROEDM Processes</strong>&lt;br&gt;Mr. Atanas Ivanov, Cardiff University</td>
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<td>10:45</td>
<td>Industrial application: <em>manufacturing of optic fiber microconnectors</em>&lt;br&gt;Precision mould maker company – MICROSYSTEMS UK, Warrington, Great Britain</td>
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<td>11:00</td>
<td>Coffee break – Visit to exhibitors</td>
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<tr>
<td>11:45</td>
<td><strong>MECHANICAL MICROMACHINING Processes</strong>&lt;br&gt;Mr. Patxi Aristimuño, Mondragon Unibertsitatea</td>
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<td>12:15</td>
<td>Micromachining process monitoring - MICROM&lt;br&gt;Dr. Endika Gandarias, Mondragon Unibertsitatea</td>
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<td>12:30</td>
<td>Industrial application: <em>microdie &amp; high value components fabrication</em>&lt;br&gt;Precision mould-maker company – Tallers Fiestas, Terrassa</td>
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<td>12:45</td>
<td>Industrial application: <em>manufacturing of dental implants</em>&lt;br&gt;Biomedical and biotechnology company - Biotechnology Institute, Vitoria</td>
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<td>13:00</td>
<td>Lunch – Visit to exhibitors</td>
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<td>14:00</td>
<td><strong>MASS-PRODUCTION OF METALLIC MICROCOMPONENTS: manufacturing technologies</strong>&lt;br&gt;Ms. Miriam Pé, Mondragon Unibertsitatea</td>
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<td>14:30</td>
<td>Industrial application: <em>microforming of sheet components</em>&lt;br&gt;Special precision part manufacturer company – Industrias Alzuca, Eibar</td>
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<td>14:45</td>
<td>Industrial application: <em>metal injection moulding</em>&lt;br&gt;Metal injection company – MIM-Tech Alfa, Eibar</td>
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<td>15:00</td>
<td><strong>MASS-PRODUCTION OF PLASTIC MICROCOMPONENTS: manufacturing technologies</strong>&lt;br&gt;Ms. Mª Eugenia Rodríguez, ASCAMM</td>
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<td>15:30</td>
<td>Industrial application: <em>microinjection</em>&lt;br&gt;Health sector injection moulding company – Gema Medical, Barcelona</td>
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<td>15:45</td>
<td>Industrial application: <em>development of a new product line - “honey” dental brackets</em>&lt;br&gt;Mr. Alberto Herrero, Tekniker</td>
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<td>16:00</td>
<td>Coffee break – Visit to exhibitors</td>
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<td>16:45</td>
<td><strong>LASER MICROMACHINING Processes</strong>&lt;br&gt;Mr. Jürgen Koch, Laser Zentrum Hannover</td>
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<td>17:15</td>
<td>Industrial application: <em>laser micromachining</em>&lt;br&gt;Company specialised in Automation Technologies – Mondragon Assembly, Aretxabaleta</td>
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<td>17:30</td>
<td><strong>METROLOGICAL DEMANDS for microtechnologies</strong>&lt;br&gt;Dr. Oltman Riemer, Bremen University</td>
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<td>18:00</td>
<td><strong>MICROMANUFACTURING IN EUROPE: visions 2020</strong>&lt;br&gt;D. Joseba Pérez-Bilbatua, Ideko</td>
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<td>18:20</td>
<td>Optional visit: Micromanufacturing laboratory Tour - Mondragon Unibertsitatea (45 min.)</td>
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EXHIBITOR COMPANIES:

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

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. Mª Eugenia Rodríguez (ASCAMM)  
- Dr. Oltman Riemer (Bremen University)  
- Mr. Jürgen Koch (Laser Zentrum Hannover)  
- Mr. Alberto Herrero (Tekniker)  
- Mr. Joseba Pérez-Bibatua (Ideko)

**Companies:**
- Microsystems UK  
- Tallers Fiestas  
- BioTechnology Institute  
- Industrias Alzuca  
- MIM-Tech Alfa  
- Gema Medical  
- Mondragon Assembly  

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**SUSCRIPTION DEADLINE**  
18th June 2008.  
Extended deadline to 27th 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: Iurrriotz 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)

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For further general information please contact: Ms. Isabel Mangana, imangana@eps.mondragon.edu  
Or via phone at (+34) 943 79 47 00

For further technical information please contact: Dr. Ivan Gallego, igallego@eps.mondragon.edu  
Or via phone at (+34) 652 72 69 25