



*Second Announcement and Call for Papers*

Fifth International Precision Assembly Seminar

# IPAS 2010

**Chamonix, France, 14-17 February 2010**



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Seminar website: [www.IPAS2010.org](http://www.IPAS2010.org)

## CALL FOR PAPERS

This is a major event for international scholars in the areas of Precision Assembly held in Chamonix, France. The official language of the Seminar is English.

### Seminar Topics

Miniaturisation and integration of functions (mechanical, sensing, control, computing) within confined spaces is becoming increasingly important in modern mechatronic systems. Such systems consist of a mechanical structure set in motion by appropriate actuators. Examples are mobile phones, wearable sound and video systems, digital organisers, space application robot endoscopes, etc. These novel systems are currently developed to solve the new societal paradigm which requests higher product quality with reduced maintenance, reduction of time delivery, greater modularity and greater customisation. They rely more and more on emerging technologies or on new concepts. Scale laws make some physical principles useless for microsystems, whereas other principles, whilst uninteresting for macrosystems, become extremely interesting for miniaturised systems. Furthermore, the complexities of the microdomain bring a greater need for collaboration of experts due to the fragmentation of research and the distribution of risk.

The aim of the seminar is to discuss the rapidly evolving field of micro-assembly, including the development of microfactories and microsystem fabrication. Contributed papers are expected to deal with but are not limited to the following:

- Design of assembly systems
- Precision actuators and sensors
- Precision joining operations
- Design for assembly
- Tolerancing for assembly
- Control methods in precision assembly
- Robotics and robot applications for precision assembly
- Modular assembly machines and systems
- Web based applications for design and planning of assembly systems
- Cost modelling for precision assembly
- Life cycle modelling of assembly systems
- Standardisation in precision assembly
- Processes and systems for disassembly
- Industrial applications of precision assembly systems
- Collaborative engineering in assembly
- Distributed and collaborative networks in assembly
- Readiness for participation in Virtual Enterprises
- Metrology and Quality Control

## INSTRUCTIONS TO AUTHORS

Please submit an electronic copy of your full paper **max 8 pages** or an extended abstract of **at least 1200** words. Your submission should include a separate page containing:

1. Title of paper
2. Suggested topic area (from topic list)
3. Name(s) of authors
4. Affiliation
5. Full postal address, telephone, fax and e-mail address

Please indicate clearly the purpose of the paper, references to related works and literature, research method and major results. Please indicate the person to whom the correspondence should be addressed. Authors' names should be on the title page only, in order to facilitate the blind refereeing process.

Papers and abstracts will only be accepted for review on the condition that the manuscript has not been copyrighted, has not been published, has not been presented or accepted for presentation at a professional meeting, and is not currently under review for presentation at another professional meeting.

Authors must intend to register for, and attend, the Seminar to present the paper if it is accepted.

All accepted papers will be published in the Seminar proceedings, provided completed papers are received by the appropriate deadline and conform to the format and length requirements. Selected papers will be invited for submission to scientific journals.

### **Paper /Extended Abstract Deadline 20 July 2009**

Decisions regarding acceptance will be made by **11<sup>th</sup> September 2009**, and authors will be requested to prepare a camera-ready copy within layout guidelines along with a copyright transfer form by:

### **Final Paper Deadline 23 October 2009**

### **Please send paper/abstract to:**

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## SEMINAR REGISTRATION FEES

	By 1 December 2010	After 1 December 2010
IPAS Registration (including €25 Administration fee)	<b>€450</b>	<b>€550</b>

The registration fee entitles the delegate to:-

- Admission to all scientific sessions
- Delegate pack with proceedings
- Refreshments at the seminar
- Welcome Reception on 14 February 2010
- Seminar Dinner on 15 February 2010

## SEMINAR ORGANISATION

### Seminar Chair

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## LOCAL ORGANISATION

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## PRELIMINARY CONFERENCE SCHEDULE

<b>SUNDAY</b> <b>14 February 2010</b>	<b>MONDAY</b> <b>15 February 2010</b>	<b>TUESDAY</b> <b>16 February 2010</b>	<b>WEDNESDAY</b> <b>17 February 2010</b>
<ul style="list-style-type: none"> <li>• Registration</li> <li>• Welcome Reception</li> </ul>	<ul style="list-style-type: none"> <li>• Registration</li> <li>• Opening Ceremony &amp; Keynote Address</li> <li>• Parallel Scientific Sessions</li> <li>• Seminar Dinner in Montenvers, nr Chamonix</li> </ul>	<ul style="list-style-type: none"> <li>• Keynote Address</li> <li>• Parallel Scientific Sessions</li> <li>• Evening meal at Restaurant L'Impossible (optional)</li> </ul>	<ul style="list-style-type: none"> <li>• Parallel Scientific Sessions</li> <li>• Industrial workshops</li> </ul>

## CHAMONIX

### Location:

Chamonix is located in the east of France, in the heart of the Northern Alps. The city has approx. 10,000 inhabitants and lies about 1,000 metres above sea level. Chamonix is a popular destination for skiing (ski areas between 1,000 m and 3,842 m) and was the site of the first Winter Olympics Games in 1924.



### Climate:

Chamonix is a year-round sightseeing destination thanks to its fantastic environment. February is usually the coldest month and August the warmest. The ski slopes open in mid-December and close at the end of April.



### HOW TO GET TO CHAMONIX

Due to its geographical situation, Chamonix Mont-Blanc is at the crossroads of three European countries (Switzerland, Italy and France). The international airport of Geneva at 85 km and the road access to the site make Chamonix Mont-Blanc one of the easiest resorts to reach in Europe.

#### Arriving by air:

The nearest airports are Geneva International (90 km) and Lyon Saint Exupéry (200 km). There are daily connections via regular coach service from both airports.

#### Arriving by train:

Take the TGV-high speed train to Geneva (90 km), Annecy (80 km), or Saint Gervais-Le Fayet during French holidays (25 km), then a connection via TER-express and link between Saint Gervais and Chamonix station (via the Mont-Blanc Express tourist train).

#### Arriving by car:

Take the A40 motorway then an express way direct to Chamonix resort. Good connections with European motorway networks: 6 hours from Paris, 2.5 hours from Lyon, 45 min from Geneva.

