



# Detailed information for attendees (both on-site and on-line)

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## CIRP president's message to the Research Affiliates



UNIVERSITÀ DI PISA

### DIPARTIMENTO DI INGEGNERIA CIVILE E INDUSTRIALE

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To the CIRP Research Affiliates

Dear young colleagues,

the Internal regulations of CIRP say: “The objective of the Research Affiliates program is to create, develop and promote a sustainable, CIRP-related, network of outstanding young researchers in the field of production engineering”.

After some years of experience I think that your group has been fully satisfying the objective described in the rules. You have been very active as evidenced by your meetings in January and August, by the recent WEB based conference and by this workshop in Zaragoza . The report given by your chairman at the Council is always highly appreciated, useful and important. My opinion is that you have been working fully in the spirit of CIRP and I thank you on behalf of CIRP.

Beyond the Internal Regulations I wish to say something more on your role in CIRP. It is well known that the power of CIRP is based on the international excellence achieved in 60 years and on the worldwide network among its members: in my opinion its power is enhanced by your active presence since you represent the future of research, you bring the richness of new ideas and unexplored fields of research.

Manufacturing has always been one of the pillars of the economy of most countries and its role is essential in these hard times of economic crisis. The future of manufacturing as a key economic factor is not based on moving production to low manpower cost countries but on research of new sustainable processes and products. In addition to hard study and commitment, whatever is “new” requires fantasy, freedom from pre established concepts, strong will of exploring unknown directions. You definitely have these features since you are “outstanding young researches” according to the definition in the Internal Regulations.

I send you my sincere wishes for a fruitful workshop and I am looking forward to meeting you in Copenhagen.

Marco Santochi  
President of CIRP

June 3rd, 2013



## Final programme

	Monday 24 June 2013	Tuesday 25 June 2013	Wednesday 26 June 2013
9:00		Technical presentations.	Cultural guided tour
9:30		Surveillance groups	
10:00		Coffee	
10:30		Workshop: Technological Process Chains	
11:00		Lunch	
11:30		Workshop: Technological Process Chains	
12:00			
12:30			
13:00			
13:30			
14:00			
14:30			
15:00			
15:30	Official welcome		
16:00	Coffee	Coffee	
16:30	Technical presentations	RA strategy and organizational aspects	
17:00			
17:30			
18:00			
18:30			
19:00			
19:30			
20:00			
20:30			
21:00	Dinner	Dinner	
21:30			
22:00			

Monday, 24 June 2013		
STC	Technical & Collaborative presentations	
16:30	A, Dn, O, (E, F)	<b>Juan Jauregui-Becker</b> (Univ. Twente): Performance evaluation of a software engineering tool for automated design of cooling systems in injection moulding
16:45		<b>Hitoshi Komoto</b> (AIST): CAD tool development for life cycle design and system architecting
17:00		<b>Rhythm Suren</b> (NTNU): Flexible handling automation in metal casting
17:15		<b>Jin Sun</b> (Univ. Edinburgh) <b>[on-line]</b> : Multiscale modelling of multiphase particle systems in bottom-up manufacturing
17:30		<b>Anna Valente</b> (SUPSI-ISTePS): Factory ECOMATION - Factory ECO-friendly and energy efficient technologies and adaptive autoMATION solutions
17:45		<b>Marcello Urgo</b> (Politecn. Milano): Virtual Factory Data Model to support the Design of Production Systems
18:00		<b>Carsten Reise</b> (TU Berlin): Gamification in manufacturing education
18:15		<b>Wessel Wits</b> (Univ. Twente): Design rules for Additive Manufacturing (AM)



Tuesday, 25 June 2013		
STC	Technical & Collaborative presentations	
9:00	A, O	<b>George Michalos</b> (Univ. Patras): The effect of job rotation on final product quality
9:15		<b>Roland Larek</b> (Hochschule Wismar): Manufacturing technology and Factory planning at Hochschule Wismar, Germany
9:30	C, M, P	<b>Taner Tunc</b> (Sabanci University): Modeling of 5-axis milling processes for increased productivity
9:45		<b>Erdem Ozturk</b> (Univ. Sheffield): Introduction of the Machining Dynamics Technology Group at AMRC with Boeing
10:00		<b>Marta Torralba</b> (Univ. Zaragoza): Large-range platform for positioning with nanometer resolution and submicrometer accuracy
10:15	Surveillance Groups Discussion	
10:30		
10:45		

## For on-site attendees

### Getting to Zaragoza

#### By train from Madrid

##### *How to purchase a train ticket:*

I suggest you to take the high-speed train either from Madrid or from Barcelona. In both cases, the airport and the train station are connected by subway or commuter/local train, taking around 20-40 minutes.

This is the web site where you can buy your train ticket:

<http://www.renfe.com/EN/viajeros/index.html>

Departure: Madrid (\*)

Destination: Zaragoza (\*)

You just need to print the PDF that the website generates when you purchase the ticket. That PDF itself is the ticket. There are some interesting discounts for some trains at some times: rates P, P+, etc, but not M (this is to reserve a table for 4 people). Trains are very good, so Turista class is very convenient. No need to pay more for a higher class.

##### *How to get to the train station from the airport:*

You can find all the information about how to get to the train station (Atocha train station) from the airport here: <http://www.aena-aeropuertos.es/csee/Satellite/Aeropuerto-Madrid-Barajas/en/Page/1237554326802//Public-transport.html>

Local/Commuter train is possibly the easiest way (train C1 to Atocha station). Underground is also a very good option, but you need to change a couple of times of train. If there is any delay



and you miss the train, you can go to the ticket office at the train station and they will give you a ticket for another train, but probably not for free.

*For your search in Google Maps:*

- Madrid Airport (Barajas): Aeropuerto de Madrid Barajas, Madrid, España.
- Madrid Train Station (Atocha): Atocha Railway Station, Madrid, España.
- Zaragoza Train Station (Delicias): Estación de Zaragoza Delicias, Zaragoza, España.

**By train from Barcelona**

*How to purchase a train ticket:*

I suggest you to take the high-speed train either from Madrid or from Barcelona. In both cases, the airport and the train station are connected by subway or commuter/local train, taking around 20-40 minutes.

This is the web site where you can buy your train ticket:

<http://www.renfe.com/EN/viajeros/index.html>

Departure: Barcelona (\*)

Destination: Zaragoza (\*)

You just need to print the PDF that the website generates when you purchase the ticket. That PDF itself is the ticket. There are some interesting discounts for some trains at some times: rates P, P+, etc, but not M (this is to reserve a table for 4 people). Trains are very good, so Turista class is very convenient. No need to pay more for a higher class.

*How to get to the train station from the airport:*

You can find all the information about how to get to the train station (Atocha train station) from the airport here: <http://www.aena-aeropuertos.es/csee/Satellite/Aeropuerto-Barcelona/en/Page/1237554338469//Public-transport.html>

From the airport to the Sants train station you can take a commuter train that takes 20 minutes: <http://www.renfe.com/EN/viajeros/cercanias/barcelona/index.html>

You can buy the tickets directly at the commuter train station at the airport. Its frequency is not very good (30 minutes), but it takes you directly to the Sants train station in less than 20 minutes. If there is any delay and you miss the train, you can go to the ticket office at the train station and they will give you a ticket for another train, but probably not for free.

*For your search in Google Maps:*

- Barcelona Airport (El Prat): Aeropuerto de Barcelona-El Prat, El Prat de Llobregat, España.
- Barcelona Train Station (Sants): Estació de Sants, Barcelona, España.
- Zaragoza Train Station (Delicias): Estación de Zaragoza Delicias, Zaragoza, España.

### More information about other ways to get to Zaragoza:

General information about these and other ways to get to Zaragoza:

<http://www.zaragoza.es/ciudad/turismo/en/organiza-viaje/como-llegar/como-llegar.htm>

### Weather forecast (on June 17) for June 23, 24, 25 and 26:

Domingo 23 jun		Lunes 24 jun		Martes 25 jun		Miércoles 26 jun	
Máxima <b>27°C</b>	Mínima <b>14°C</b>	Máxima <b>23°C</b>	Mínima <b>13°C</b>	Máxima <b>27°C</b>	Mínima <b>14°C</b>	Máxima <b>28°C</b>	Mínima <b>19°C</b>
08:00		08:00		08:00		08:00	
 15°C	 13°C	 15°C	 19°C				
12:00		12:00		12:00		12:00	
 23°C	 19°C	 23°C	 25°C				
16:00		16:00		16:00		16:00	
 27°C	 23°C	 27°C	 28°C				
20:00		20:00		20:00		20:00	
 24°C	 23°C	 27°C	 28°C				
↘ 28 km/h		↘ 21 km/h		↙ 6 km/h		↙ 6 km/h	
 ↑ 6:29 ↓ 21:41 ☁ 15:12	 ↑ 6:29 ↓ 21:41 ☁ 15:12	 ↑ 6:30 ↓ 21:42 ☁ 15:12	 ↑ 6:30 ↓ 21:42 ☁ 15:12				

### Once in Zaragoza

Zaragoza has a very convenient public transportation system. Tram tickets can be purchased at the machines placed at the tram stops. Bus tickets are purchased on the bus. You can also take a taxi.

All the information about the different ways to get to the different places by public transportation can be found in Google maps:

#### For your search in Google Maps:

- Zaragoza Train Station (Delicias) Estación de Zaragoza Delicias, Zaragoza, España.
- Zaragoza Airport: Aeropuerto de Zaragoza, Zaragoza, España.
- Hotel Meliá: Hotel Meliá Zaragoza, Avenida César Augusto, Zaragoza, España.
- Workshop Venue: Edificio Betancourt, Zaragoza, España.
- Restaurant for dinners: El pequeño cascanueces, Zaragoza, España.
- Hotel Tram Stop: Plaza Aragón, Zaragoza, España
- Venue Tram Stop: Campus Río Ebro, Zaragoza, España



### ***Hotel-Venue by tram***

The venue is perfectly communicated with the city center (where the hotel is) by public transportation with a modern and frequent tram system (taking around 15 minutes). Tickets (1,35€) can be purchased in machines (with menu in English) at the tram stops and are valid for one trip and one hour. Anyway, organizers will accompany you with a discount card and pay for the trips from and to the venue on Monday 24 and Tuesday 25.

### **Sunday, June 23: going out for some tapas**

If you are in Zaragoza on Sunday 23, you can join us for an informal dinner. We will chip in and have some tapas at one of the most typical areas in Zaragoza.

*Meeting point: Hotel Meliá's lobby at 21:00.*

### **Monday, June 24: workshop and dinner**

Workshop starts at 15:30. We will meet all at 14:30 at the Hotel Meliá's lobby and come together to the venue by tram.

*Meeting point to go to the workshop: Hotel Meliá's lobby at 14:30.*

After the workshop we will accompany you again to the hotel and we will meet again for dinner afterwards. You will be invited for dinner at "El pequeño cascanueces" (Romea, 8, 50002 Zaragoza), a small and charming restaurant, 15min away from the hotel on foot.

Menu includes pork. If this is not convenient to you, please let me know it in advance by email.

*Meeting point to go to the restaurant: Hotel Meliá's lobby at 20:30.*

### **Tuesday, June 25: workshop and dinner**

Workshop starts at 9:00. We will meet all at 8:10 at the Hotel Meliá's lobby and come together to the venue by tram.

*Meeting point to go to the workshop: Hotel Meliá's lobby at 8:10.*

After the workshop we will accompany you again to the hotel and we will meet again for dinner afterwards. You will be invited for dinner again at "El pequeño cascanueces" (Romea, 8, 50002 Zaragoza).

Menu will be different from the previous day's, but also includes pork. If this is not convenient to you, please let me know it in advance by email.

*Meeting point to go to the restaurant: Hotel Meliá's lobby at 20:30.*



## Wednesday, June 26: cultural guided tour

As a final event, we are happy to invite you to a cultural guided tour. We will visit the Aljaferia, La Seo and the historical centre. Estimated duration is 3 hours. If you are attending the MESIC conference you can visit the Aljaferia and La Seo and then go to the conference before the tour ends.

*Meeting point for the guided tour: Hotel Meliá's lobby at 9:30.*

*Ending point of the tour: Plaza del Pilar (Cathedrals Square) at 12:30.*

## Wifi

At the venue eduroam wifi internet access will be available.

If you do not have access to the eduroam network, also an specific wifi access will be available:

- Network: wiuz
- User: CIRPRA2013
- Password: CIRP-2013-Z

## For on-line attendees

Technical presentations (Monday 24 after the coffee break and Tuesday 25 before the coffee break) will be video-streamed and accessible on-line. The kick-off of the workshop (Tuesday 25 after the coffee break) will be probably also accessible.

We will be using Skype, which is quite well-known and effective.

I purchased the premium version, so up to 10 people will be able to attend the meeting, see and hear the presentations and make questions on-line. I will start the conversation and will add you to it, so...

*... please, add me to your Skype. My user is: **jayague***

## Contact

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