

# CIRP RA Summer News

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## Editorial



Dear CIRP colleagues,

Welcome to the first issue of the CIRP Research Affiliates newsletter! We hope you will find this a useful update of our main activities and achievements. We have conceived this newsletter with the aim of communicating the CIRP community the outputs of our standard events, provide an overview of the main technical discussions and collaborations we as a group are working on, and finally, to give the chance to our members to expose their experiences as young researchers. Therefore, we have structured the newsletter in two issues, a winter one and a summer one. On the one hand, the winter issue will provide an overview of the CIRP-RA calendar -indicating which events are taking place when in the course of the year-, describe the main collaboration taking place in our network, and present an overview of the change of status of the members of our community. On the other hand, the summer issue will focus on two of main events, namely, our insignia conference CIRPelectronic, and the General Assembly meetings.

We are looking forward to continuing this productive channel of information interchange throughout the CIRP community. The future success of this newsletter will depend on your comments, contribution and ideas; therefore, we would like to invite you to support us by participating in it. I hope this will mark the beginning of a tradition that will accompany our network on its path to becoming a honorable community.

Warm regards,

Juan M. Jauregui-Becker

Editor of the first issue of the CIRP-RA newsletter

University of Twente, The Netherlands.

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## Words from the chair

by WESSEL WITS

*"We are the future of CIRP".*



It is with great pleasure that I am writing this article for the first RA newsletter. I think it is a perfect tool to stay in touch and update each other on our activities. As you know the RA network is evolving constantly and it is vital to stay well connected. To quote our CIRP president Prof. Santochi in his opening address at the RA meeting:

CIRP requires us -as outstanding young researchers- to bring in new ideas and explore unexplored fields of research free from pre-established concepts. I believe that the best way to do this is by inspiring each other, sharing ideas and having close collaborations. You will notice that during each of our meetings we will make plenty of time available for this.

Talking about constant evolvement, this last General Assembly in Copenhagen 11 new RAs were admitted to the network bringing the total new RAs of this year to 25.

In total there are now 103 RAs from 24 different countries around the world within the network. Some of the new RAs have already had the opportunity to join some of our meetings. The others I hope to personally welcome at one of our meetings, the first being in Paris in January 2014. At the start of our meetings new RAs are always invited to give a quick introduction about their life, research and interests.

A big change also since the last General Assembly is that, since the RA program is running for 6 years now, RAs will be leaving us as well. In fact, 24 RAs left the program as of August 2013 of which 4 became Associate Member. I guess this stresses again that, since the RA program is for a limited time only, we should really strive and make the best of it. Since not everyone is able to attend all our meetings, we have decided to list the new and departing RAs also in this newsletter. We also invite you to share your results and ideas with us through this newsletter.

Some other thing we -as new RA officers- have proposed are (mini-)workshops. Instead of filling our valuable time with presentations, we will be working in small groups on interesting assignments. Working together with RAs each having their own background brings new insights to the table. The outcomes can be useful to better tackle multidisciplinary research questions or it can help an RA seeking knowledge from a broad range of disciplines outside his or her own specialty.

To conclude this article, I would like to remind you that the diversity in research fields is unique to the RA network and this is generally not found within the STCs. Hence, this advantage makes our network especially tailored for bringing in new ideas for the future of CIRP and for the future of production engineering research as a whole. I hope this inspires you to join the RA meetings and activities, enrich us with your expertise and let it flourish (and harvest) collectively.

Hope to see you (again) in Paris,  
Wessel Wits  
Chair CIRP Research Affiliates

### **CIRPe 2013: A great success!**

by DR. SOTIRIS MAKRIS

The 2nd CIRP Web conference (CIRPe) of the Research Affiliates network held on 11-12 June 2013 was again an exciting conference! During these 2 days we had:

- 22 papers
- 1 industrial keynote
- 190 registered participants
- 44 countries
- 6000 page views, 742 paper downloads

- 159 unique views of the live broadcast
- On average 2.5 live questions per paper, with a minimum of 2 questions and a maximum of 5 questions on a single paper.

As this metrics indicate, the conference was successful in providing a means for academic interaction from the comfort of each ones working space. We think that this live way of interaction, brought people close even that we were in different physical locations around the world. It was definitely an honor for the organizing committee, to serve in this position and running this exciting conference.

We would like to thank all the paper authors and conference presenters for their support in realizing this conference. We would also like to thank all the participants that joined the discussions. Finally, we would like to thank Prof. Fred Van Houten and Prof. George Chrysolouris, for being the CIRP Fellows supporting this conference.

Good luck to the 3rd CIRP Web Conference! Looking forward to see each other in the next year's CIRP Web conference, and on behalf of the organizing committee,  
Dr. Sotiris Makris  
University of Patras, GREECE  
Conference chair

Dr. Anna Valente  
SUPS-ISTePS, Switzerland  
Conference co-chair

Dr. Aydin Nassehi  
Universty of Bath, UK  
Conference co-chair

### **Best experience in my life**

by YASUHIRO KAKINUMA

First of all, I would like to express my sincere gratitude to Professor Denkena (look picture) for giving me a great opportunity to work at a wonderful research institute, IFW, for 1 year.

Our laboratory in Keio University has had a strong relationship with IFW for a long time. For instance, we have regular short period exchange program for master course students. This exchange program was built in 2002 by contribution of Professor Tonshoff in IFW and Professor Inasaki in Keio at that moment. Every year, 2-3 students selected by each university come spend 4 months in each laboratory and work on some research project. This program perfectly gives students in Keio, who have interest in how a student in a different country works on and progresses his/her research project, good motivation and big chance to be able to actually do research in Germany. The experience of doing a research in IFW produces big difference. I can recognize students coming back from IFW obviously grow up and put great effort into managing and

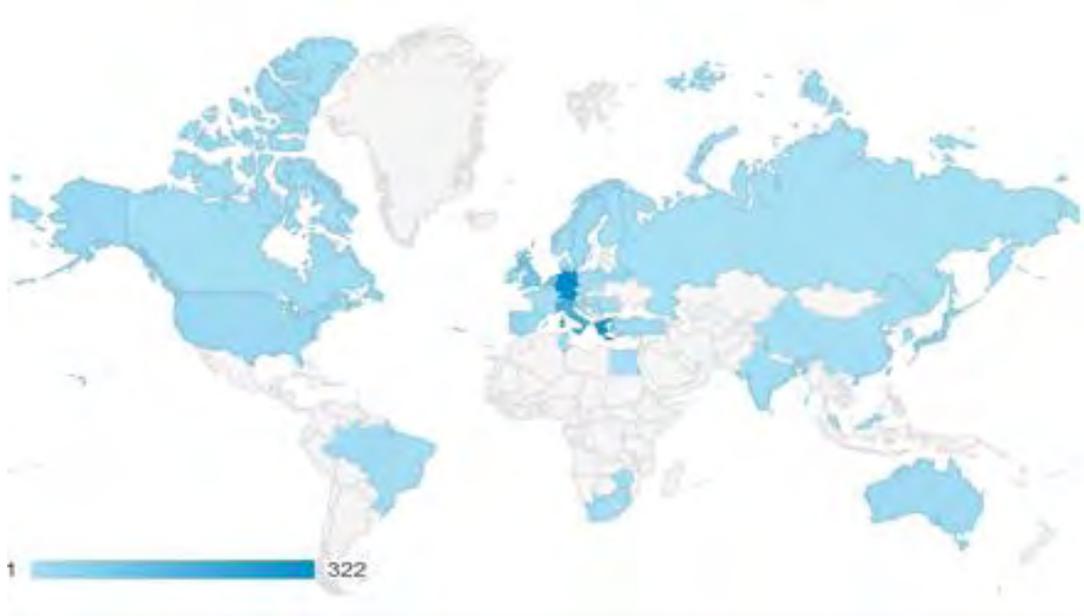


Figure 1: Participation density on world map



Figure 2: Photo with Prof. Denkena at Machine hall in IFW

promoting their researches by themselves, which are important skills for researcher. From this perspective, this program is a big successful program in Keio in terms of education of students. From the point of not only our good relation but also many excellent and attractive researches on machine tools based on new concepts, I decided to spend 1 year in IFW because I could get a chance to take sabbatical. Indeed, the “schnell machine” developed by IFW have attracted me since I visited IFW to attend the 1st CIRP Conference on Process Machine Interaction held in 2008. To do research abroad is what I have wanted to experience since I was a Ph.D student. My wish finally came true in 2012!

During my stay in Hannover, I was able to learn difference between working in Germany and working in Japan. One of the big differences is consciousness of the researchers. While master-course students mainly do research in Japan professors supporting them, greater than 80 Ph.D-course researchers with career-consciousness in IFW are dealing with their researches. In addition, they have responsibility for not only researches themselves but also management of their researches. Although I thought it could be sufficient for Japanese industry that students go for industry after receiving Master degree, I have fully changed my mind as I get to know high research capability of Ph.D researchers in IFW. I became aware that researchers like the ones in IFW, who overcome the difficulty by a new idea based on physics and mathematics would be what Japanese industries including machine tool builders require as human resources in order to keep high standard technology. I am supposed to introduce strategic view point in Germany, which I have obtained through my experience in IFW, and German beer culture after work since it makes good relationship and atmosphere between researchers, and helps to come up with new idea!

With respect to my research in IFW, it is still going on. In the near future, I hope to show the research in some conference/ meeting related to CIRP.

Yasuhiro Kakinuma, Associate professor  
Affiliation: Department of System Design Engineering,  
Keio University

## Members Upgrades

We are proud to announce the that following have been admitted to the RA network as from August 2013:

- Prof. Huajun Cao.
- Dr. John Ahmet Erkoyuncu
- Dr. Peter Kinnell
- Dr. Florent Laroche
- Dr. Gil-Yong Lee
- Dr. Ang Liu
- Ass. Prof. Rocco Lupoi

- Dr. Antonio Maffei
- Dr. Ing. Steven Peters
- Dr. Paolo Claudio Priarone
- Dr.-Ing. Frederik Zanger

We would also like to congratulate the following for having become associate members of CIRP:

- Simone Carmignato
- Yasuhiro Kakinuma
- Sotiris Makris
- Aydin Nassehi

Last but not least, we would like to warmly thank the following persons, whos membership has expired after 6 years, for their participation:

- Renzo Akkerman
- Ahmed Azab
- Danko Brezak
- Giacomo Copani
- Petar Curkovic
- Arnaud De Grave
- Mervyn Fathiathan
- Andrea Ghiotti
- Robert Karl Heinemann
- Steffen Koch
- Giovanni Lucchetta
- Francesco Marinello
- Aldo Roberto Ometto
- Claudia Pagano
- Gianluca Percoco
- Konstantinos Salonitis
- Marco Schneider
- Tiziana Segreto
- Giuseppe Stecca
- Tobias Surmann

During the last General Assembly an RA alumni system was discussed to have the possibility to keep in touch. The RA officers are currently working on this.

## Coming activities

The following activities have been planned on this year 2013-2014 in which RA members are welcome to participate:

- CIRP January meeting, 22-25 January, Paris.
- RA Workshop hosted by Gjøvik University College, 16-17 June, Norway.
- CIRPe2014 organized 3-5 June 2014, <http://www.cirpe2014.unina.it/>
- CIRP General Assembly meeting, 24-30 August 2014, Nantes, France, <http://www.cirp2014.com/>