

CIRP RA Summer News



Editorial

Dear CIRP colleagues,

I am pleased to welcome you to the new issue of the CIRP Research Affiliate Newsletter! You will find information about the past and upcoming RA activities with special focus on the coming 2017 RA workshop to be held in Toulouse. I am particularly fond of this activity as I was the organizer of the 2016 issue in Stockholm. I have added a few pictures I took during the workshop. I am currently working on the follow up activities: you will be hearing about it in the coming news for RA network.

Finally, in this issue we will read about the experience of several CIRP members with a valorisation workshop at the University of Twente.

I would like to take the chance of this editorial to encourage you to exploit this newsletter to share your activities with the RA network: this will for sure result in increased communication and cooperation.

Well, that is it from my side and I hope you will enjoy reading this newsletter and look forward to meet the CIRP community again at our next meeting in Paris.

Ciao from CIRP-RA newsletter's Editor,

Antonio Maffei (KTH Royal Institute of Technology, Stockholm, Sweden)

Words from the RA Chair

by Petra Wiederkehr



Dear Research Affiliates,
it is a great pleasure for me to address you in this newsletter for the fourth – and for me – for the last time as Chair of the RAs. We had an eventful year 2016 with a lot of very interesting activities which are also addressed in this

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newsletter.

I hope you all enjoyed the **General Assembly (GA)** in Guimaraes and had a safe return from Portugal. During the GA, we had two RA meetings and our traditional dinner in an excellent Portuguese restaurant. One of the main topics during the sessions was “Industry 4.0” which was addressed in our **mini-workshop**. Here we had inspiring short presentations leading to intensive discussions in smaller groups afterwards.

In addition, we had an excellent **Annual RA Workshop** in Stockholm, Sweden, which was very well organized by a current RA, Antonio Maffei and his team at the KTH, and a former Research Affiliate, Mikael Hedlind, who is now a CIRP Corporate Member. We had an inspiring workshop about “Constructive alignment of course design in higher education”, an impressive visit to Scania and a wonderful social event at the Vasa Museum. I would like to use this opportunity to thank Antonio and his

team again for the excellent organization.

Another highlight of the RA activities in 2016 was the **5th CIRP Global Web Conference** (CIRPe 2016) about “Research and Innovation for Future Production”. The conference was mainly organized by Kosmas Alexopoulos and his team from the University of Patras, Greece, who was supported by Erdem Ozturk und Candice Majewski. The CIRPe Conference started in 2012 with around 20 papers. In this year, we enjoyed 51 presentations broadcasted during three conference days. I would like to thank Kosmas and his team very much for their great effort in organizing this event. For the next CIRPe Conference, we are currently looking for the new organization committee. If you are interested in organizing this great event, please let me know.

During the GA 2016, 16 **new RAs** were accepted and it is a great pleasure for me to welcome you in our network. In total, we are **114 RAs** at the moment coming from 26 different countries. The RA network is not only an international, but also a highly interdisciplinary community since the interests of the different RAs cover the whole STCs. And now it is up to you to use this network in order to build up new collaborations and to develop new project ideas. For this purpose, we

introduced **poster sessions** and mini-workshops during our meetings in order to give enough room for intensive discussions. Furthermore, we are establishing an **Expertise Atlas** in our RA network to build up a powerful tool which can be used to easily find interested collaboration partners and we hope that a lot of RAs will participate in these activities.

Looking at the number of **former RAs**, 22 of them are now CIRP Associate Member, one former RA became Fellow and 7 former RAs join the CIRP as Corporate Member. During our next RA meeting in February 2017 in Paris, Prof. B. Lauwers will give a short presentation about the opportunity to become Corporate Member. Our meeting is scheduled on Wednesday, 15 February 2017 at 4.30 pm. During this meeting, I will resign after being the RA Chair for two years. It was a great time for me and I would like to thank all of you for your excellent collaboration. That also implies that we will vote for a **new board** during the Winter Meeting. If you would like to become Vice Chair and Chair afterwards or you would like to nominate a current RA for these positions, please let me know.

I'm looking forward to meeting you in Paris Petra.



Figure 1 CIRP GA 2016: Research Affiliate Dinner



Valorization Workshop of the FoF RobustPlanet Project at the University of Twente

by Juan M. Jauregui Becker

RobustPlaNet is an EU-7th Framework Program founded project that developed an innovative technology-based business approach to drastically change rigid supply chain mechanisms and product-based business models into

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collaborative and robust production networks that are able to timely deliver innovative product-services in very dynamic and unpredictable, global environments. An important part of the project team are CIRP members (Research Affiliates, Associates and fellows) affiliated to several academic institutions, namely (1) the Hungarian Academy of Sciences, (2) Karlsruhe Institute of Technology, (3) Politecnico di Milano and (4) the University of Twente. With the goal of further investigating the potential for exploiting

our projects results, a valorization workshop was held at the University of Twente on April this year, organized by Dr. Juan M. Jauregui, a Research Affiliate.

The two days valorization workshop created a taxonomy of exploitation results and assessed for each Exploitable Research (ER) which the level of market readiness was. Furthermore, business models were created for the most promising products for each ER by filling business canvas. The workshop was organized following the Cambridge valorization method and the Lean Canvas approach.

First, the original ERs were evaluated and reframed according to the project evaluation.

This activity was performed with all project partners concurrently during the first day.

Having done so, an introspective analysis of the capacities and resources developed through the project was made, followed by a business model analysis. While the introspective analysis was performed using the Cambridge based valorization method, the business models were generated using the lean canvas method.

The workshop resulted in a more structured overview and specific details of the exploitable results of RobustPlaNet. The information gathered set the basis to starting elaborating the PUDF of the project. The workshop also improved the understanding of the project demonstrators among all partners.



Figure 2. Robust Planet team working during the valorisation workshop at the University of Twente

CIRP RA workshop 2017

by Olga Battaia

We are pleased to host the annual Research Affiliates Workshop at ISAE-SUPAERO, the first Aerospace Engineering School in the world, located in Toulouse, France. The attendees will be able to present their research topics, discuss possible research collaboration, visit our labs as well as a Final Assembly Plant of Airbus and also work on a strategic RA Topic "How can we enhance the impact of RA group?" I would like to present the motivation for this topic.

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With the Kick-off-meeting in July 2008, the network of CIRP RAs started to exist. A unique chance to participate in and contribute to the academy of CIRP was given to elected young scientists. Right from the start, the group of RAs has raised a number of strategic questions: What kind of contribution could be provided by the young members? How should the network be structured? Which topics could be dealt with? Which rights and which duties were given to the RAs? Several strategic meetings were organized in 2008, 2009 and 2010. We would like to thank again our pioneers who contributed to the

organization of our network. In particular, during a strategic meeting in Hannover in December 2008, the following goals were defined for RAs:

1. Efficiency by using the network for exchange about research work and relevant topics;
2. Visibility by publications, citation, newsletter (CIRP internal), workshops;
3. Multi-disciplinary instead of STC-related activities and identification of common topics;
4. Collaboration at three "levels": (a) without certain projects, (b) CIRP collaborative work, (c) funded collaborative projects;
5. Support of and contribution to CIRP activities, support of RAs' individual work, foster personal development.

Three fields of activities to achieve these goals were also proposed, namely:

1. Annual RA Workshops (independent from CIRP GA et Winter meetings)
2. Interactions with STCs (technical presentations, newsletter...)
3. International collaboration (student exchange, lecturer exchange, joint publications...).

I believe that all of us agree with the defined guidelines. As proof, all our annual meetings contribute to the listed directions. I also believe that we can do better and our group may have a bigger impact on the CIRP community. What's why I would like to suggest discussing together a number of questions like: What are you expecting

from RA network? what kind of activities would you like to see? and what could motivate you to be more active and dynamic?

There are easy answers to these questions, but the goal is to get to the root and change for the better offering to you the organization which suits your expectations. In parallel, it is also important to discuss the obstacles to be more involved in the RA network (financial, geographical, time...). The objective is to exchange in an open way our motivations, our doubts, our ideas... To initiate the discussion, we would like to send a survey to all RAs built with the questions suggested by RAs. The responses will be analysed and discussed during the physical meeting in Toulouse. Therefore, you can contribute to this discussion at three different levels (past RAs are also welcome to participate):

1. Propose your questions for the survey (by sending your questions to olga.battaia@isae.fr by February 1st)
2. Respond to the survey (between Winter meetings and RA workshop) which will be presented during the Winter meetings
3. Come to the workshop in Toulouse to participate in the analysis of the results and brainstorming on new ideas for RAs network

We need your opinion and ideas to enhance the impact of the RA group! Thank you in advance for the contribution.

Besides this brainstorming session, also planned a lab visit, an industrial visit to a Final Assembly Line of Airbus and social events. Don't miss the update on the workshop at our winter meeting.



Figure 3 Some views of beautiful Toulouse

Some Pictures from The RA WS 2016 in Stockholm

