

REMANUFACTURING UPDATE OCTOBER 2015

RESEARCH & DEVELOPMENT NEWS FROM BAYREUTH



Remanufacturing 2.0: New Reman R&D Center "Goes Live" in Bayreuth

Some of you might have noticed it already: in our last issue we added a new picture in the top row of the newsletter (image at the far right). It shows our new building where we moved in this year.

The official opening took place on August 6th, almost exactly two years after the ground-breaking ceremony. 200 guests – politicians, industrialists and scientists – came to celebrate with us.

The "Glass Cube" – how some locals call the building – gives "home" to 100 scientists who put the focus of their research on



Official "Big Opening Party" in August 2015

remanufacturing, resource efficiency and process management. Tailored to the researchers' needs, the building got equipped with high-class technology. Almost 2,000 sqm space provide room for offices, laboratories, teaching and meeting rooms. "We are especially proud of the model factory which is realized on 800 sqm in the ground floor of our new facility", Rolf Steinhilper says. In the model factory new methods, tools and processes can be tested and demonstrated. Companies are invited to learn hands-on about brand new methods and technologies there, which are freshly generated in the "thinking factory" above.

The "Glass Cube" and the model factory embody the core idea of our work: Simplicity, openness and transparency. We want to transfer complex research results into simple, applicable solutions and thus provide an access for the general public. Therefore,

the high share of glass in the building's facade enables people outside to see what is going on inside. (Of course we also have secret laboratories.)

A special art object symbolizes our busy workforce: a circular written morse code which starts inside

the building and continues on the outer side, spelling the word "workflow".



Entrance hall with view on the art object

We would like to heartily invite you to explore our new facility and at the same time offer you an excellent opportunity: we will host a reman networking event in January 2016 (see back page). It would be a great pleasure for us to present you our new building on-site!

Editorial

Dear Readers,

on August 6th we had a great Opening Ceremony (not to say: a big party!) with more than 200 guests to celebrate our new R&D Center in Bayreuth as reported on this newsletter's front page.

Some of you could take part in August – all others are welcome any time!

Enjoy reading!

Rolf Steinhilper



→ **Rolf Steinhilper**
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Remanufacturing Networking Event – Save the Date!

The European Remanufacturing Network (ERN) aims to encourage and boost remanufacturing throughout Europe. The goals are:

- Encourage new businesses to take up remanufacturing.
- Help existing remanufacturers improve their operations.
- Improve competitiveness of remanufacturers domestically and internationally.

To raise the profile of the European remanufacturing industry and to create sustainable partnerships, the first ERN **networking event** will be hosted by the Chair Manufacturing and Remanufacturing Technology at the University of



Bayreuth and the Fraunhofer Project Group Process Innovation in Bayreuth at **January 21st, 2016**.

The event will start with an introduction of the ERN after a business lunch. This will be followed by the presentation of the **results of the remanufacturing market study** which was done within the ERN.

A special focus of the event will be set on

today's and tomorrow's challenges in remanufacturing. Moderated round-table discussions will facilitate the share of information and the discussion on key topics for remanufacturing businesses.

The event will be enriched by presentations from industry and science about challenges as well as best practices in business models, design and remanufacturing processes.

Finally, the day will be concluded with a networking dinner.

Remanufacturers as well as companies interested in remanufacturing are invited to participate in the event. A detailed agenda will be published soon.

The registration is **free of charge** - so don't hesitate and send me an email!

→ **Steffen Butzer**

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www.remanufacturing.eu
Funded by the Horizon 2020 Framework Programme of the European Union under grant agreement No 645984

ResCoM is on Track

In September 2013, you already heard about our research project „ResCoM“. ResCoM (resource conservative manufacturing) deals with ways to foster resource conservation in production through connecting efforts in business models, supply chains and technology infrastructure. Until now we have introduced a new way of investigating product development documents concerning their circularity (fit with the paradigm of circular economy) and thus analyze the state of the art in product design. On the basis of this new insight, the project proceeds with developing four case studies in close collaboration between research and our industrial partners. The case studies will showcase how the tools and proceedings developed can help to improve existing production and sales, both in terms of economic benefit for producer and customer as well as ecologic benefit through resource conservation in different industries. Stay curious to read more about ResCoM and the important role remanufacturing can play. Visit the project on:

www.rescoms.eu

→ **Christoph Velte**

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Meet one of our Experts - Today: M.Sc. Christoph Schmidt

Today we would like to introduce Christoph Schmidt to you. Christoph has expert knowledge in process optimization, metal-cutting and further specific areas of production technology.

Christoph Schmidt

Age: 28

Nationality: German



Career: **2003-2007** Wholesale and export merchant **2008-2014** Bachelor and Master degree in production technology, since **2015** research assistant at Prof. Steinhilper's Chair Manufacturing and Remanufacturing Technology in Bayreuth.

What are your activities in remanufacturing research?

I am dealing with the adaption and optimization of existing production technologies in order to increase the quality of remanufactured products.

How did you come to remanufacturing?

When I started working at the chair of Professor Steinhilper, I got involved in the project ERN. This was my first contact with remanufacturing.

What do you do in your free time?

I like playing Lacrosse, enjoy spending time with my friends and I love reading

interesting literature.

What gives you pleasure?

Passing on the fascination of technical knowledge to others.

What are your wishes for the reman branch?

Compared to the current situation, I would like the end consumers to become more aware of remanufactured goods and the benefits of those.

Imprint

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