

Invitation to our Colloquium on Production Technology

Ladies and Gentlemen, dear colleagues,

“What if... we set up a department in Augsburg to investigate the production technology of tomorrow?” This is how, on the afternoon of 12 January 2007, the idea for a centre dedicated to lightweight production technology was born at DLR.

Ten years ago, the first DLR researchers began their work in Augsburg, thanks to extensive funding from the Bavarian State Government – supported by the Bavarian State Ministry of Economic Affairs, Regional Development and Energy – and the City of Augsburg. In early 2009, it all started with three researchers in the rented premises of Sigmapark in Augsburg.

In cooperation with many partners, DLR created a research facility that is unique in Europe, with a robot platform only available in Augsburg. Today, almost 60 employees and students are shaping the future of automated lightweight production at the Center for Lightweight-Production-Technology (ZLP) on the grounds of the Augsburg Innovation Park.

Proud to celebrate 10 years of DLR research in Augsburg, we warmly invite you to our 5th Colloquium on Production Technology on 15 May 2019 at ZLP Augsburg.

We look forward to welcoming you.

Prof. Dr.
Heinz Voggenreiter
Director of the Institute

Prof. Dr.
Michael Kupke
Head, ZLP Augsburg

DLR at a glance

The German Aerospace Center (DLR) is the national aeronautics and space research centre of the Federal Republic of Germany. Its extensive research and development work in aeronautics, space, energy, transport, security and digitalisation is integrated into national and international cooperative ventures. In addition to its own research, as Germany's space agency, DLR has been given responsibility by the federal government for the planning and implementation of the German space programme. DLR is also the umbrella organisation for one of the nation's largest project management agencies.

DLR has approximately 8000 employees at 20 locations in Germany: Cologne (headquarters), Augsburg, Berlin, Bonn, Braunschweig, Bremen, Bremerhaven, Dresden, Goettingen, Hamburg, Jena, Juelich, Lampoldshausen, Neustrelitz, Oberpfaffenhofen, Oldenburg, Stade, Stuttgart, Trauen, and Weilheim. DLR also has offices in Brussels, Paris, Tokyo and Washington D.C.

Imprint

Publisher:
Deutsches Zentrum für Luft- und Raumfahrt e. V.
German Aerospace Center (DLR)
Institute of Structures and Design

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Image: DLR/MichaelHaggenmüller



5th Colloquium on Production Technology

10 years of DLR's Center for
Lightweight-Production-Technology
(ZLP) in Augsburg
Wednesday 15 May 2019

Programme

Colloquium on Production Technology

- 09:30 **Welcome address**
Klaus Hamacher, Vice Chairman of the DLR Executive Board
- 09:40 **Opening remarks from the Bavarian Ministry of Economic Affairs, Regional Development and Energy**
State Secretary Roland Weigert
- 09:50 **Opening remarks from the City of Augsburg**
Mayor Eva Weber
- 10:00 **History of ZLP Augsburg and the path towards a digitalised future**
Prof. Dr. Heinz Voggenreiter, DLR
Dr. Wolfgang Dudenhausen, DLR
Prof. Dr. Michael Kupke, DLR
- 10:30 **Panel discussion: What future challenges will OEMs face with regard to production technology?**
Jens Graf, Airbus
Hans J. Steininger, MT Aerospace AG
Andreas Stöckle, Airbus Helicopters
Dr. Jens Walla, Premium AEROTEC GmbH
Moderation: H. Voggenreiter, M. Kupke
- 11:00 Coffee break
- 11:30 **Digitalisation of engineering: the digital learning factory**
Prof. Dr. Anoush Poursartip,
The University of British Columbia (UBC)
- 12:00 **Learn and optimize complex manufacturing processes in a virtual environment based on machine learning methods**
Prof. Dr. Homayoun Najjaran,
The University of British Columbia (UBC)
Marian Körber, DLR
- 12:30 Lunch break
- 13:40 **Development of a thermoplastic rear pressure bulkhead**
Ralph Männich, Premium AEROTEC GmbH
Alexander Sängler, Premium AEROTEC GmbH
- 14:10 **Towards the industrial welding of thermoplastic composites for full-scale applications**
Dr. Stefan Jarka, Manuel Endraß, DLR
- 14:40 Coffee break
- 15:10 **Technology maturation for a next upper stage made of carbon composites**
Ralf Hartmond, MT Aerospace AG
- 15:40 **Leapfrog innovation for a composite upper stage: opportunities for thermoplastic CFRPs**
Lars Brandt, DLR
- 16:10 **Keynote: Digitalisation and Flexible Production**
Prof. Dr. Michael Kupke, DLR
- 16:40 **Closing remarks**
Prof. Dr. Heinz Voggenreiter, DLR
Prof. Dr. Michael Kupke, DLR
- 17:00 **Reception**

When?

Wednesday 15 May 2019, 09:30 – 18:00

Where?

German Aerospace Center (DLR)
Center for Lightweight-Production-Technology (ZLP)
Am Technologiezentrum 4
86159 Augsburg
Germany

Registration

Please register by 5 May 2019 at
<https://smodell.besl-eventservice.de/TStqHkwLwsZY/>
The number of participants is limited.

Contact

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Information

We kindly inform you that a photographer will be present at this event. A selection of photos may be used on the organiser's homepages, in social networks or in print. If you do not wish to be photographed, please contact the photographer on that day. Thank you very much!