

# Contact

## Organizer

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Brandenburgische  
Technische Universität  
Cottbus - Senftenberg



Leichtbau mit strukturierten Werkstoffen

## Partner

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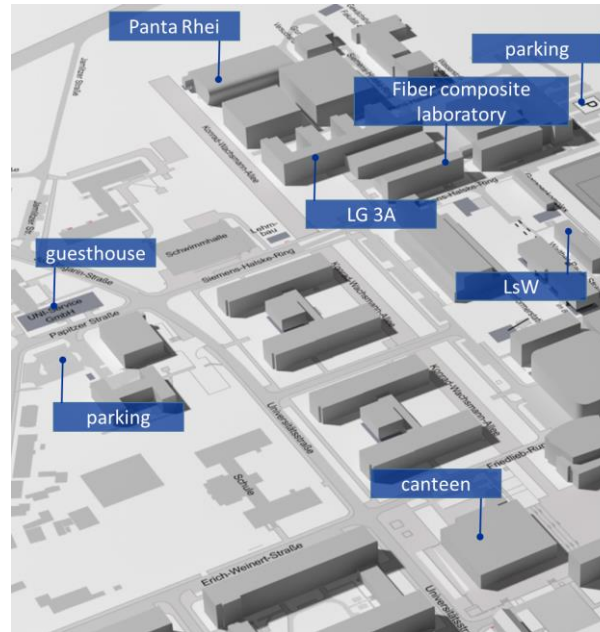
Europäischer Fonds für  
regionale Entwicklung



# Venue

**BTU Cottbus – Senftenberg**

Central Campus  
Konrad-Wachsmann-Allee 17  
03046 Cottbus



**Guesthouse of the Uni-Service GmbH**

Papitzer Street No. 4  
03046 Cottbus



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# Workshop

## 14 Dec - 15 Dec 2017

at BTU Cottbus - Senftenberg

## German – Polish Innovation Network

for sustainable economic/technological  
strengthening of the border region  
Spree-Neiße-Bober



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Technische Universität  
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## German – Polish Innovation Network

for sustainable economic/technological strengthening of the border region Spree-Neiße-Bober through need-based qualification and retention of professionals for the region.

New materials require a new understanding of design, development and manufacturing. Especially the substitution of metallic materials by composites shows a steadily growing trend. The generative production, being one of the main research areas of the BTU Cottbus - Senftenberg and the University of Zielona Góra, offers a great opportunity for the companies from the region to identify new business areas through qualified personnel.

The implementation of these key technologies in the companies of the region requires appropriately trained scientific personnel, who under the given conditions, implement the knowledge and technology transfer for the development of new markets and business areas.

As part of the project of the German - Polish Innovation Network, three events will be held as workshops. Within the first two workshops in Cottbus, students will identify and discuss representative technology demonstrators and implement by considering company-specific characteristics and goals. At the demonstrators, the students should map possible development trends, so that the best possible solutions can be worked out within the group - with synergetic use of the technical expertise and consideration of regional and company-specific boundary conditions.

## Thursday, 14/12/2017

10:00 Arrival and brief welcome of students and supervisor  
*Address: Guesthouse of the UNI Service GmbH  
Papitzer Street No. 4  
03046 Cottbus*

10:15 Check in to the hotel rooms

10:45 Short tour through the Panta Rhei building

11:30 **Welcome and introduction (LG 3A Room 325)**  
**Lightweight construction in Cottbus**  
Univ.-Prof. Dr.-Ing Holger Seidlitz,  
Department LsW

12:00 **Design of composites**

12:30 **New solid-mechanical approaches for calculating the strength of additively manufactured plastics**

13:00 **Lunch break (canteen)**

14:00 **Advanced joining technology for the production of highly stressable lightweight structures with fiber-reinforced plastics and metal**

14:30 **Recycling strategies for fiber composite components**

15:00 **Start of the saddle workshop thermoset vs. thermoplastic (LG 3B fiber composites laboratory)**  
Resin impregnation RTM/Infusion  
Group 1 & Group 2 (Vogt/Krenz Ambrosio/Kliem)

16:30 **Technology internship (Panta Rhei)**  
Pressing, Group 1 (Matthies/Knorr)  
Mechanical testing methods, Group 2 (Wartig)

17:30 Injection molding, Group 1  
Extrusion, Group 2  
(Matthies/Knorr/Kuke)

18:30 **Get together (Panta Rhei)**

## Friday, 15/12/2017

09:15 **Breakfast (Panta Rhei)**

10:00 **Saddle workshop thermoset vs. thermoplastic (LG 3B fiber composites laboratory)**  
Post-treatment of thermoset saddle  
Group 1 & Group 2  
Evaluation of Impregnation  
(Vogt/Krenz)

11:00 **Saddle workshop thermoset vs. thermoplastic (Panta Rhei)**  
Pressing (Vogt/Krenz/Matthies)

12:30 **End of the workshop**  
Summary (Seidlitz/Vogt/Krenz/Kuke)

13:00 **Lunch break and farewell**