

Efficient production and operation of structures means saving resources and avoiding environmentally harmful effects. Done smartly, both lead to cost advantages. Fiber reinforced polymer composites are predestined for eco-efficient solutions. In our colloquium, we present you with the latest developments from our research areas of Materials Science, Component Development, Manufacturing Science and Digitalization, as well as development work from industry. In our laboratories, you will learn about the latest testing and manufacturing technologies in conversation with our experts.

The conference will be held on-site.



Registration closing date

18 August 2023

Please register online:

www.ivw.uni-kl.de/en/registration-ivw-colloquium

Registration fee

incl. Evening Reception & Lab Tour

100 €



Accommodation

A limited number of hotel rooms are reserved

Contact

colloquium@leibniz-ivw.de

**We are looking forward
to welcoming you in Kaiserslautern!**

Conference language

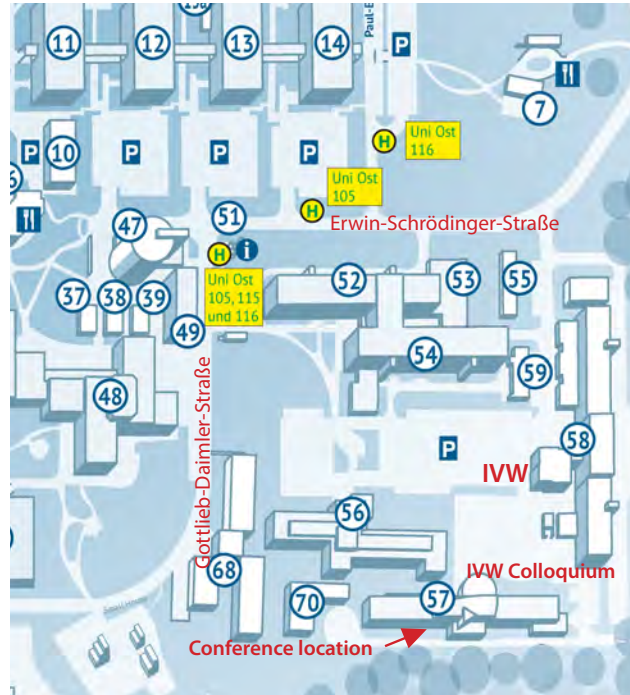
English

How to find us:

Leibniz-Institut für Verbundwerkstoffe
Erwin-Schrödinger-Straße 58
67663 Kaiserslautern

Conference location:

Rotunde Building 57



By motorway

A6 – exit Kaiserslautern-Centrum or Kaiserslautern-West
– follow the signs “Technische Universität”

By train

Hauptbahnhof Kaiserslautern.
Take bus no. 105 (direction “Uni-Wohnstadt”)
bus stop “Universität Ost”

Contact person

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Colloquium

14 and 15 September 2023



Day 1, Thursday, September 14

- 11:30 h Registration**
Building 57
- 12:00 h Lunch and Expo**
Building 58
- 13:00 h Opening**
Building 57
- Ulf Breuer**
Scientific Director of IVW
- 13:05 h Component Development**
Chair: Joachim Hausmann, IVW
- Ralph Funck**
Albany
"Carbon fiber composite components in sustainable aviation"
- Konstantin Mehl, Vinay Nagaraj**
IVW
"Topology optimization of hybrid components"
- Egon Moos**
Röchling
"Sustainability in composites for automotive applications"
- Christian Andriß**
IVW
"An integral method for the efficient characterization and modeling of the nonlinear, rate-dependent behavior of continuous fiber-reinforced thermoplastics"
- Christian Becker**
IVW
"In-situ damage detection in rCFRP using X-ray microscopy"
- 15:05 h Coffee Break**
Foyer 57
- 15:30 h Material Science**
Chair: Bernd Wetzler, IVW
- Eckhard Thines, Stefan Jacob, Luis Antelo**
Institut für Biotechnologie und Wirkstoff-Forschung
"Fungal biotechnology: versatile chemists as a tool for sustainable materials science"
- Emmanuel Akpan**
IVW
"High performance wood composites"
- Bernd Wetzler, Jan-Kristian Krüger, Andreas Klingler**
IVW
"Advanced measurement of thermomechanical properties"

Andreas Gebhard
IVW
"Transfer films and their influence on friction"

Julia Jungbluth
IVW
"In-situ interface characterization of SMA polymer composites"

17:30 h Lab Tour

18:30 h Bus transfer from IVW to hotels

19:30 h Bus transfer from hotels to evening reception

20:00 h Evening Reception at Pfalzgalerie

22:30 h Bus transfer from Pfalzgalerie to hotels

Day 2, Friday, September 15

08:00 h Keynote
Building 57

Jose Sanchez
Airbus
"Composite airframe applications – lessons learnt and new challenges"

08:30 h Manufacturing Science
Chair: Peter Mitschang, IVW

Jens Schlimbach
IVW
"Digital integration of winding hydrogen storage tanks"

Jörg Strohacker
Hexagon
"Composite pressure vessels: State-of-the-art, challenges, and future"

Florian Gortner
IVW
"Translucent SMC with flame retardant properties"

Christian-André Keun
Comprisetec
"Materials for interiors in aerospace industry"

Martin Detzel
IVW
"rCF staple fiber tapes"

10:30 h Coffee Break
Foyer 57

10:45 h Digitalization
Chair: David May, IVW

Suresh Advani
University of Delaware
"Advances in liquid composite molding simulations for automation and digitization"

Tim Schmidt
IVW
"Machine learning-boosted process simulations from fiber to part"

Andreas Wiegmann
Math2Market
"A digital material laboratory for composites"

Dominic Schommer
IVW
"Pushing the limits in compression molding simulation"

Miro Duhovic
IVW
"Applied machine vision for carbon composites manufacturing"

12:45 h Farewell Peter Mitschang
Ralf Schledjewski
Montanuniversität Leoben

13:15 h Lunch and Expo
Foyer 58

14:00 h End of Colloquium