

Conference Venue

Haus der Kirche
Evangelische Akademie Baden
Dobler Str. 51
D-76332 Bad Herrenalb
Tel.: (07083) 928-0
Fax: (07083) 928-601
E-Mail: HausderKirche@hdk.ekiba.de
URL: www.ev-akademie-baden.de/haus/

Location



By public transport

Take tram S1 leaving in front of Karlsruhe Main-Train-Station to Bad Herrenalb (duration about 30 minutes) once an hour. Upon arrival in Bad Herrenalb, you can take a taxi or even walk to the conference venue (5-10 minutes).

By car

Karlsruhe - Ettlingen - Bad Herrenalb. In the center of Bad Herrenalb turn left to the direction of Dobel (Pforzheim). The conference venue is then located about 500m on your left.

Organizers

Prof. Dr.-Ing. habil. Thomas Böhlke
Chair for Continuum Mechanics
Institute of Engineering Mechanics
Karlsruhe Institute of Technology (KIT)
Germany

Prof. Dr.-Ing. habil. Rolf Mahnken
Chair of Engineering Mechanics (LTM)
University of Paderborn, Germany

Guest Organizers

PD Dr. Heiko Andrä
Dr. Matthias Kabel
Fraunhofer Institut für Techno- und
Wirtschaftsmathematik (ITWM)
Kaiserslautern, Germany

Contact

Prof. Dr.-Ing. habil. Thomas Böhlke
Institute of Engineering Mechanics
Karlsruhe Institute of Technology
Kaiserstr. 10
D-76131 Karlsruhe
Germany
Tel.: (0721) 608 46107
Fax: (0721) 608 44187
E-Mail: composite2014@itm.kit.edu
URL: www.itm.kit.edu/cm/

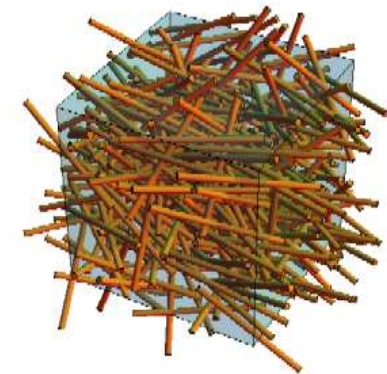
Karlsruhe Institute of Technology
Institute of Engineering Mechanics
Chair for Continuum Mechanics



University of Paderborn
Chair of Engineering Mechanics



27th International Workshop Research in Mechanics of Composites



Dec. 11-12, 2014
Bad Herrenalb, Germany

Objective of the Workshop

Modern fiber reinforced polymers (FRP) show a macroscopic material behavior depending sensitively on the fiber orientation distribution and arrangement as well as the generally nonlinear material behavior of the constituents. Additionally, the overall composite behavior is influenced by fluid-structure interaction, by curing during the production process as well as by the interface properties. Understanding the correlation of both the microstructure and the micromechanical behavior on the one side, and the macroscopic composite behavior on the other side, is of fundamental interest for the design of materials, the optimization of production processes as well as the dimensioning and optimization of construction parts. In this workshop, new approaches for the material modeling of fiber reinforced composites, corresponding numerical solution strategies, and experimental techniques are discussed.

Time Table

Dec. 10, 2014	18:00h	Informal meeting and registration
Dec. 11, 2014	08:30h	Workshop
Dec. 12, 2014	11:30h	Final discussion
Dec. 12, 2014	12:30h	Lunch

Key Subjects related to FRP

- Micromechanics
- Methods of homogenization
- Mechanical and thermal behaviour
- Thermo-chemo-mechanical modeling
- Damage, fatigue and fracture modeling
- Experimental methods
- Numerical simulation techniques
- Mathematical analysis of microstructures

Abstracts

The abstract (max. 250 words, LaTeX) should be submitted to composite2014@itm.kit.edu latest by **November 15, 2014**. For the corresponding template, please refer to www.itm.kit.edu/cm/

Deadlines

- Submission of tentative title: Oct. 15, 2014
- Notification of acceptance: Nov. 01, 2014
- Abstract submission: Nov. 15, 2014
- Registration: Nov. 15, 2014
- Conference fee: Nov. 15, 2014
- Workshop: Dec. 11-12, 2014

Registration

by **E-Mail** until **November 15, 2014**

- Title, Name, First Name:
- Institution:
- Postal address:
- Tel.-No.:
- E-Mail:

to composite2014@itm.kit.edu.

Registration-Fee

Please transfer the amount of **EUR 350,00** (registration fee, including accommodation, meals, abstract band) by **November 15, 2014**, latest, to the following account:

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- Deutsche Bundesbank, Filiale Karlsruhe
 - Recipient: KIT, Amtskasse Campus Süd
 - Account-No.: 6600 1508
 - Bank Number: 660 000 00
 - BIC / SWIFT: MARK DE F1660
 - IBAN: DE 5766 0000 0000 6600 1508
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- Reference / Betreff:
 - Name, Surname
 - Composite Workshop 2014
 - Project: XD 20348 71051
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