

Prof. Dr. Ben Schweizer  
Fakultät für Mathematik  
TU Dortmund  
Vogelpothsweg 87  
44227 Dortmund, Germany

## **GAMM ACTIVITY GROUP “ANALYSIS OF MICROSTRUCTURES”**

Hans-Dieter Alber (TU Darmstadt)  
Carsten Carstensen (HU Berlin)  
Sergio Conti (Universität Bonn)  
Georg Dolzmann (Universität Regensburg)  
Marc Geers (TU Eindhoven)  
Klaus Hackl (Ruhr-Universität Bochum)  
Christian Miehe †(Universität Stuttgart)  
Alexander Mielke (HU Berlin)  
Stefan Müller (Universität Bonn)  
Patrizio Neff (Universität Duisburg-Essen)  
Jörg Schröder (Universität Duisburg-Essen)  
Ben Schweizer (TU Dortmund)  
Erwin Stein (Universität Hannover)  
Paul Steinmann (Universität Erlangen-Nürnberg)  
Martin Wagner (TU Chemnitz)  
Peter Wriggers (Universität Hannover)  
Kerstin Weinberg (Universität Siegen)

### **LOCATION**

The seminar will be hosted at TU Dortmund. For further information please visit

[www.mathematik.tu-dortmund.de/lisi/Gamm-2017](http://www.mathematik.tu-dortmund.de/lisi/Gamm-2017)

### **ORGANIZERS**

Prof. Dr. Georg Dolzmann  
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## **16th GAMM-Seminar on Microstructures**



**tu** technische universität  
dortmund

**January 20–21, 2017**

## KEYNOTE LECTURERS

Grégoire Allaire (Ecole Polytechnique)  
Gilles Francfort (Université Paris-Nord)  
Marc Geers (TU Eindhoven)  
Bernd Schmidt (Augsburg University)  
Augusto Visintin (University of Trento)

## OBJECTIVES

The seminar will focus on various aspects of microstructures in solid mechanics, material science and applied mathematics:

- Modeling of materials with microstructure (plasticity, damage, phase transitions, electro-magneto-mechanics, ...)
- Experimental results on formation and evolution of microstructure (lamination, phase transformation, ...)
- Mathematical analysis, variational formulations, non-convex problems, relaxation methods
  
- Multiscale methods and computational tools for the determination of effective properties of micro-heterogeneous materials

The seminar gives the opportunity to discuss and to compare different approaches to the above fields. It provides a platform for the interaction among young and established researchers in solid mechanics, mathematics, and material science.

## ABSTRACTS

A  $\text{\LaTeX}$  template as well as a style file are available for download on the seminar webpage. Both files will also be sent by email to participants. Abstracts should be submitted before November 15, 2016.

## TENTATIVE TIMETABLE

Jan 19 Get-together  
Jan 20 Lectures, activity group meeting  
evening conference dinner  
Jan 21 Lectures until early afternoon

Regular lectures will be 25 minutes.

## REGISTRATION

The conference fee of €80 covers break refreshments, a booklet of abstracts, and further supplies. Accompanying persons are charged €50. Payment is requested by November 30, 2016.

Account Holder: TU Dortmund  
IBAN: DE25 4405 0199 0001 2271 14  
SWIFT/BIC: DORTDE33XXX  
Purpose: 16th Gamm-Seminar

## DEADLINES

Registration: October 31, 2016  
Abstracts: November 15, 2016  
Payment: November 30, 2016

## 16TH GAMM-SEMINAR ON MICROSTRUCTURES

Dortmund, Germany  
January 20–21, 2016

## Registration Form

Last name: .....

First name: .....

Title: .....

Affiliation: .....

Address: .....

.....

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Phone: .....

Email: .....

I would like to:

• participate in the seminar

• present a lecture

entitled: .....

.....

• take part as an accompanying person

**Please respond before October 31, 2016**

Registration by email is also welcome:  
gamm-micro@math.tu-dortmund.de