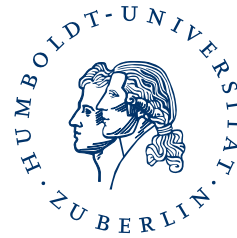


FEBRUARY 8-9, 2013

12TH GAMM SEMINAR ON MICROSTRUCTURES



Organizers

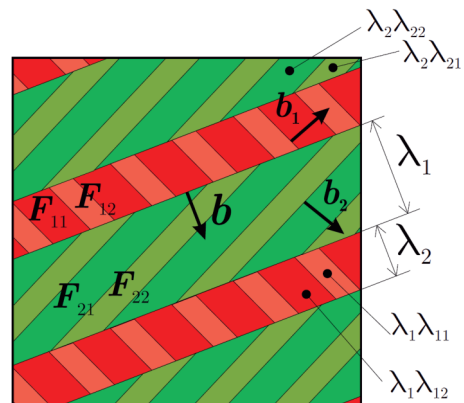
Carsten Carstensen, Berlin
Klaus Hackl, Bochum

GAMM ACTIVITY GROUP Analysis of Microstructures

Hans-Dieter Alber (TU Darmstadt)
Carsten Carstensen (HU Berlin)
Sergio Conti (Universität Bonn)
Antonio DeSimone (SISSA Trieste)
Georg Dolzmann (Universität Regensburg), chairman
Klaus Hackl (Ruhr-Universität Bochum), vice chairman
Christian Miehe (Universität Stuttgart)
Alexander Mielke (WIAS and HU Berlin)
Stefan Müller (Universität Bonn)
Patrizio Neff (Universität Duisburg-Essen)
Jörg Schröder (Universität Duisburg-Essen)
Erwin Stein (Universität Hannover)
Peter Wriggers (Universität Hannover)

Deadlines

Registration: 31.12.2012
Payment: 31.12.2012
Abstract submission: 15.01.2013



Objectives

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

- theoretical and computational modelling of materials with evolving microstructures (plasticity, damage, phase transitions, electro-magneto-mechanics, thin walled structures, films, dislocations),
- experimental results on the formation and evolution of microstructure (lamination, phase transformation, phase separation),
- mathematical analysis, variational formulation, asymptotic analysis, homogenization and relaxation methods, non-convex problems,
- multiscale methods and other computational tools for the determination of effective properties of micro-heterogeneous materials.

The seminar is intended to give the opportunity to discuss and compare different approaches to the above areas as well as to stimulate and create perspectives for future research. It provides a platform for the interaction among young and established researchers in solid mechanics, mathematics and material science.

Time Table

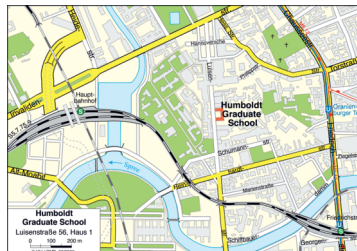
February 8: Lectures (opening 10am)
Conference dinner in the evening

February 9: Lectures (closing 5pm)
The lecture time is 30 minutes including discussion.

Location

Festsaal der Humboldt Graduate School,

Luisenstr. 56, 10117 Berlin



Registration

The conference fee of 80,-€ covers break refreshments, a conference dinner and a booklet of abstracts.

Accompanying persons will be charged 50,-€.

Bank account details and a registration form can be found on the seminar webpage

www.mathematik.hu-berlin.de/~ccafm/gamm2013

Accommodation

The participants are advised to make hotel reservation themselves.

Hotels can be found on the Berlin tourism webpage www.berlin.de/tourismus.

Organizers

Carsten Carstensen

Humboldt-Universität zu Berlin

Institut für Mathematik

Unter den Linden 6

10625 Berlin

Tel.: (030) 2093-5489

Tel. (Sekretariat): (030) 2093-5844

E-mail: cc@math.hu-berlin.de

Klaus Hackl

Ruhr-Universität Bochum

Lehrstuhl für Allgemeine Mechanik

Universitätsstrasse 150

44801 Bochum

Tel.: (0234) 32-26025

E-mail: klaus.hackl@rub.de

Deadlines

Registration: 31.12.2012

Payment: 31.12.2012

Abstract submission: 15.01.2013