



## The location

*The symposium will take place in the refurbished former Cistercian monastery Bad Schöntal in Germany. The monastery was founded in 1157 and is located in the south of Germany.*

<http://www.kloster-schoental.de>

## Über die Forschergruppe FOR 1650

... about the research  
group FOR 1650

The research group FOR 1650 *Dislocation-based Plasticity* is funded by the German research foundation (‘Deutsche Forschungsgemeinschaft’), DFG. The research group aims at the development of dislocation-based simulation methods for the prediction of deformation processes in metallic materials on the micrometer- and sub-micrometer scales. Methods employed in the projects range from discrete dislocation dynamics simulations, through dislocation density-based continuum methods to enhanced gradient models. Well defined averaging procedures allow bridging between the methods. Overall behaviour as well as statistical descriptions are compared to experiments specifically tailored to validate the models on a microstructural scale.

This symposium towards the end of the first 3-year period of FOR1650 is meant to review the entire topic *Dislocation-based Plasticity* with the international experts in the wider thematic area.

<http://www.for1650.kit.edu>

*The Schöntal Symposium*

## Dislocation- based Plasticity

*DFG Forschergruppe FOR 1650*

— First announcement —

On behalf of the DFG research group FOR 1650 *Dislocation-based Plasticity*, you are invited to the Schöntal Symposium held at the monastery Bad Schöntal in Germany.

The focus of the symposium is on Dislocation-based Plasticity and related topics. The symposium will feature thematic lectures but will mainly be a forum for intense discussions, knowledge exchange and networking within the research community concerned with dislocations, their modeling, experimental observations, and theoretical assessment.

**February 24 – February 28, 2014**  
**Bad Schöntal, Germany**

## Registration and Contact

The **conference fee** will be 500€ and covers the cost for a single room for 5 nights, all meals and soft drinks during the day.

**Payment of the conference fee:** can be done directly at the conference venue – cash or credit cards accepted.

**Registration** starts on 1st of December 2013; deadline for registration is the 16th of December 2013.

For **registering** and further inquiries please send an email to: gabriele.zehbe@ww.uni-erlangen.de

Best wishes,

Peter Gumbsch (FOR1650 speaker)  
Thomas Böhlke (co-speaker)  
Stefan Sandfeld (coordinator)

## Preliminary Symposium Schedule

Targeted size of this symposium is about 80 participants. All presentations are scheduled for a duration of 30“ plus additional time for discussions. There will be one keynote lecture per day.

### Sunday, February 23

Arrival and dinner/reception

### Monday, February 24

Presentation of the FOR1650 projects

### Tuesday, February 25

Session organizer: Istvan Groma. Topic: *Current state and challenges in developing a physical based continuum theory of dislocations*. Evening: poster session

### Wednesday, February 26

Session organizer: Nasr Ghoniem. Topic: *Recent progress in dislocation dynamics*

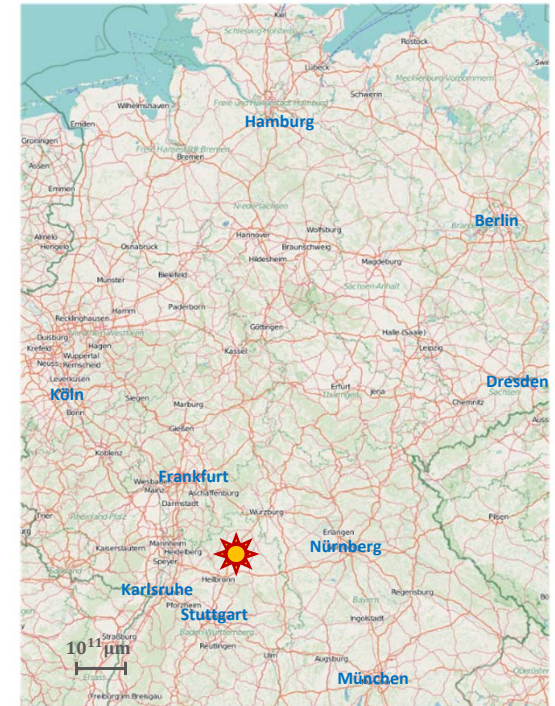
### Thursday, February 27

Session organizer: Marc Fivel. Topic: *Dislocations and Interfaces*. Workshop outing.

### Friday, February 28

Session details t.b.d. Departure after lunch

**Confirmed speaker** include: P. van Beers, T. Cosby, C. Depres, A. El-Azab, M. Fivel, S. Forest, C. Fressengeas, N. Ghoniem, I. Groma, P. Ispanovity, M. Kooiman, M. Lazar, K.C. Le, A. Ma, S. Mesarovic, T. Pardoen, G. Po, J. Wang



## How to get there...

Bildungshaus Kloster Schöntal  
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- from Frankfurt airport: 175km (1:50 h by car, 3:30 h by public transportation)
- from Stuttgart airport: 115km (1:15 h by car, 2:45 h by public transportation)
- from Nürnberg airport: 175km (1:50 h by car, 2:45 h by public transportation)