

12. International Conference on

# Free Boundary Problems Theory and Applications

Germany 11.-15. June 2012

## Focus Sessions:

Allen-Cahn and Cahn-Hilliard models

Analysis of fluidic interfaces

Biomembranes

Crystalline interface evolution and  
related singular curvature flow

Drops, bubbles and applications in microfluids

Free boundaries in mathematical biology

Free boundaries in critical-state problems

Level set methods

Multiscale problems in materials science

Numerical methods for evolving hypersurfaces

Numerical methods for fluidic interfaces

Numerical methods for multiphase flow  
with phase transition

Optimization and free boundaries

Phase field models

Qualitative properties of free boundaries

Reaction-diffusion equations

Regularity of free boundaries

Singular geometric evolutions of free boundaries

Thermodynamics of interfaces

Local organisers:

Hans Wilhelm Alt (TU München),

Harald Garcke (Univ. Regensburg),

Karl-Heinz Hoffmann (Bayer. Akademie der Wissenschaften)

## Plenary Speakers:

**J. E. Andersson** (Univ. of Warwick)

**J. Barrett** (Imperial College London)

**W. Dreyer** (WIAS Berlin)

**A. Friedman** (Ohio State Univ.)

**Y. Giga** (Univ. of Tokyo)

**M. Hassanzadeh** (Univ. of Utrecht)

**K. Hutter** (ETH Zürich)

**R. Miller** (MPI Berlin)

**R. Monneau** (Univ. de Marne-la-Vallée)

**J. Ockendon** (Oxford Univ.)

**J. Prüss** (Univ. Halle)

**A. Reusken** (RWTH Aachen)

**E. Rocca** (Univ. Milano)

**V. Solonnikov** (Steklov Institute)