

Hauptvorträge

Alexander K. Belyaev (RAS St. Petersburg)
High-frequency dynamics of structures

Bjorn Engquist (U Texas at Austin)
Current trends in multiscale modeling

Adriana Garroni (U Rom)
Multiscale variational analysis of dislocations

Michael Hinze (U Hamburg)
PDE constrained optimization in engineering applications

Ray W. Ogden (U Aberdeen)
Structurally-based analysis of the mechanical properties of soft biological tissues

Daya Reddy (U Cape Town)
Some variational and computational aspects of problems for gradient plasticity

Joachim Schöberl (TU Wien)
Hybrid discontinuous Galerkin methods for the Navier-Stokes equations

Jörg Schumacher (TU Ilmenau)
Why can't we understand clouds without turbulence?

Bob Svendsen (RWTH Aachen)
Thermodynamic formulation of models for microstructural evolution and their application to the simulation of technological systems

Wolfgang Wall (TU München)
Multifield and multiscale problems and methods in computational biomechanics

Special Lectures

Prandtl Lecture **Norbert Peters** (RWTH Aachen)
Turbulence statistics along gradient trajectories

Public Lecture **Hans Sünkel** (TU Graz)
Die Bestimmung des Erdschwerefeldes mittels Satelliten – eine mathematisch-numerische Herausforderung (in German)