

Polymers for Engineering Applications: Experiment, Continuum Modeling and Molecular Simulation

Host: PD Dr. F. Varnik, ICAMS. Place: IC02/718 (ICAMS, large seminar room)

Programme:

- 09:25 Gunther Eggeler, Institute for Materials, Welcome
- 09:30 Axel Marquard, Institute for Materials: New experimental work on shape memory polymers
- 10:00 Sulamith Frerich, Institute for Thermo- and Fluid Dynamics: Foaming of polymers under high pressures: Thermodynamical behaviour and characteristic properties
- 10:30 *Coffee*
- 11:00 Holger Steeb, Institute for Mechanics: Thermo-mechanical coupling in Shape Memory Polymers - Characterization and continuum-based modeling approaches
- 11:30 Fathollah Varnik, ICAMS: Molecular dynamics simulations of polymers
- 12:00 *Lunch*



13:30 Didier Long, CNRS-Solvay, France: Unique Non-Linear and Recovery Behaviour of Nano-Filled Elastomers and Thermoplastic Elastomers

