



2015 plenary meeting DFG Priority Programme 1713

“Strong coupling of thermo-chemical and thermo-mechanical states in applied materials”

Program Schedule

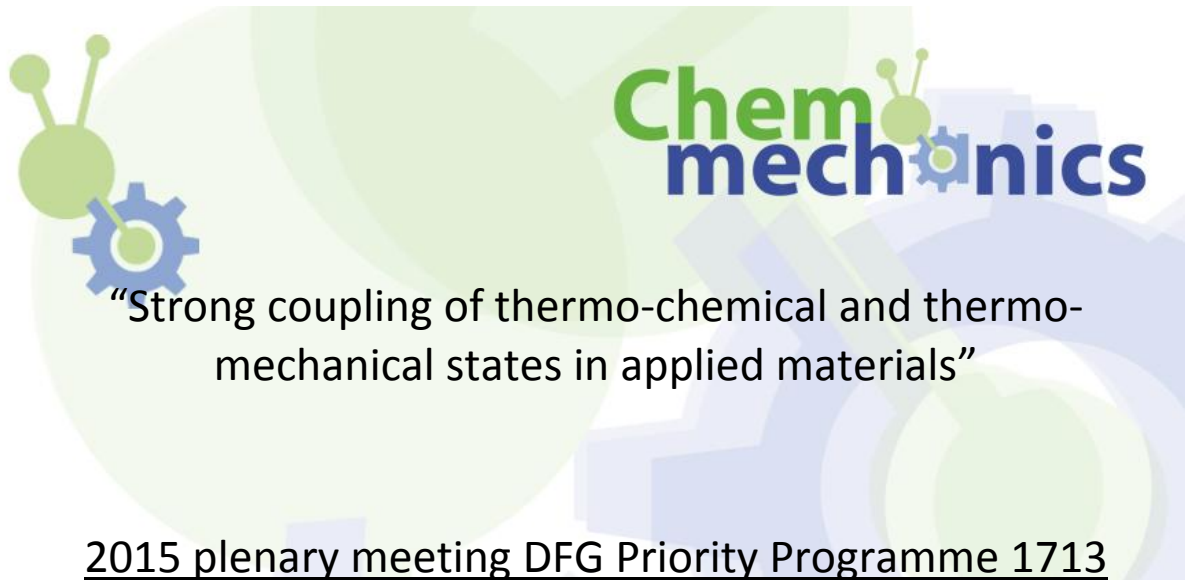
Ruhr-University Bochum, Germany

04th + 05th November 2015

Beckmanns Hof, Room Shanghai
Universitätsstraße 150, 44801 Bochum

Organized by

ICAMS, Ruhr-University Bochum, Germany



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Ruhr University Bochum

Beckmanns Hof, Room Shanghai

Wednesday 04th November

14:00 – 14:30	Introduction Steinbach/Grenzer
14:30 – 16:00	Project presentations M1 + M2
16:00 – 16:30	Break
16:30 – 18:00	Project presentations M3 + M4
19:00	Dinner

Thursday 05th November

09:00 – 11:15	Project presentations P1 + P3
11:15 – 11:45	Break
11:45 – 13:00	Projectgroups
13:00 – 14:00	Break
14:00 – 15:30	Discussion of common activities / Benchmarks

End



Participating projects DFG Priority Programme 1713

No.	Investigator	Topic
M1	Reza Darvishi Kamachali, Bochum Birgit Skrotzki, Berlin	Evolution of strengthening phases under in-service stresses and temperatures: phase-field and experimental study
M2	Sergiy Divinski, Münster Tilman Hickel, Düsseldorf	Mechano-chemical coupling during precipitate formation in Al-based alloys
M3	Dirk Helm, Freiburg Dierk Raabe, Düsseldorf	Thermo-chemo-mechanical coupling during thermomechanical processing of microalloyed steels (TCMPrecipSteel)
M4	Martin Hunkel, Bremen Ulrich Prahl, Aachen Robert Spatschek, Düsseldorf	Modeling bainitic transformations during press hardening (PressBain)
P1	Joachim Bluhm, Essen Jörg Schröder, Essen	Modeling of Ionic Electroactive Polymers - Consistent Formulation of the thermoelectro-chemo-mechanical coupling effects and Finite-Element Discretization
P2	Günther Eggeler, Bochum Holger Steeb, Bochum Fathollah Varnik, Bochum	On the effect of thermo-mechanical and chemo-mechanical coupling on the structural and functional properties of shape memory polymers (SMPs)
P3	Marina Grenzer, Dresden Markus Kästner, Dresden	Modeling of strongly coupled magnetomechanical behavior in magneto-sensitive elastomers