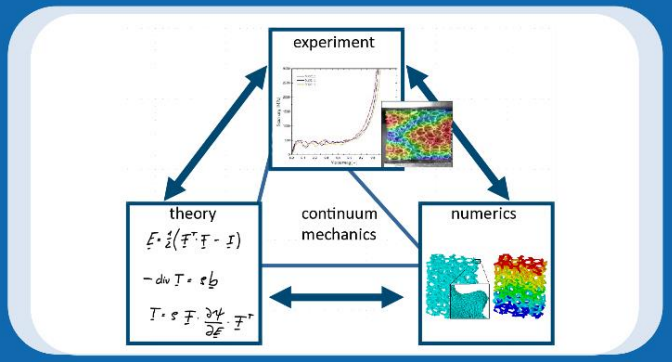
UNIVERSITÄT DES SAARLANDES

Chair of Applied Mechanics

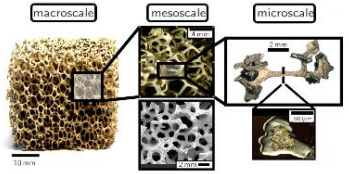
EEIGM



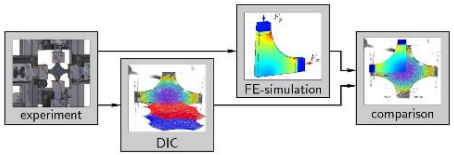
The development of mechanical models becomes more and more an interdisciplinary field of research which is worked on in the team by scientists of different fields. A special challenge in the area of research is in particular to describe smaller and leighter components. Amongst others, foamed materials are modeled at the Chair of Applied Mechanics. Experiments are carried out and theoretical models and the accompanying numerical procedures are developed.

For more information: http://www.ltm.uni-saarland.de

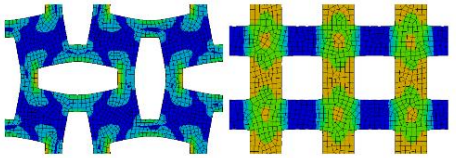
Metal foams and hybrid foams



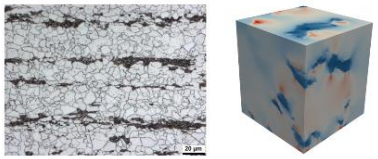
Viscoelasticity of polymers



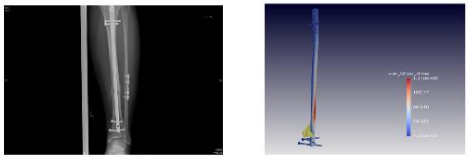
Characterization of auxetic materials



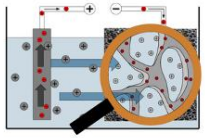
Microstructural modelling of multi-phase steel



Personalized design of implants and protheses



Electrochemical deposition on cellular materials



EEIGM Teacher/Researcher involved

Stefan Diebels | **Anne Jung** | **Wolfgang Ripplinger** | **Joachim Schmitt** | **Michael Roland**

Expertise:
Continuum mechanics, extended continuum theories, experimental mechanics, micromechanics, biomechanics, numerical methods

Teaching:
Statics, dynamics, mechanics of materials, continuum mechanics, materials modeling, experimental mechanics, analytical mechanics, numerical mechanics, finite elements