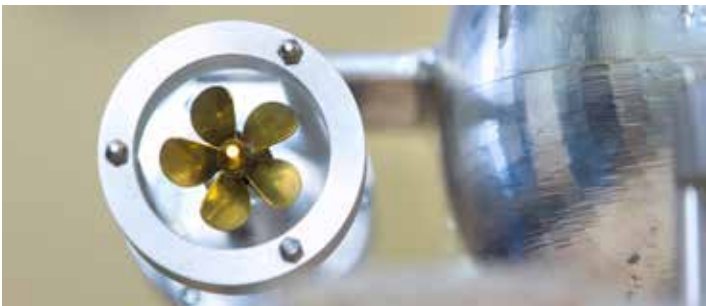




HSA_sim RESEARCH TEAM – COMPETENCIES AND CONTACT



The HSA_sim research team (left to right):

Prof. Dr.-Ing. Alexandra Jördening, Prof. Dr.-Ing. Joachim Voßiek,
Prof. Dr.-Ing. Matthias Schlägel

HSA_sim Spokesman Prof. Dr.-Ing. Joachim Voßiek	Column 1:	Column 2:	Column 3:
Prof. Dr.-Ing. Alexandra Jördening	Modelling, Analytical and Numerical Calculation	Verification and Validation	Optimization
Prof. Dr.-Ing. Matthias Schlägel			



CONTACT



"We are in great demand as
a partner for research and
development and generate
new knowledge for the
benefit of students and
businesses alike."



HSA_sim Spokesman

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Fig. 1

HSA_sim – FLUID-DYNAMICAL COMPUTATION & SIMULATION

Fig. 1
FSI Simulation and Verification
using a wing



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- Analytical and Numerical Flow Computation
- Set-up of Fluid-dynamical Models and CFD Simulation
- Development of experimental Validation Systems
- Fluid-Structure Interaction

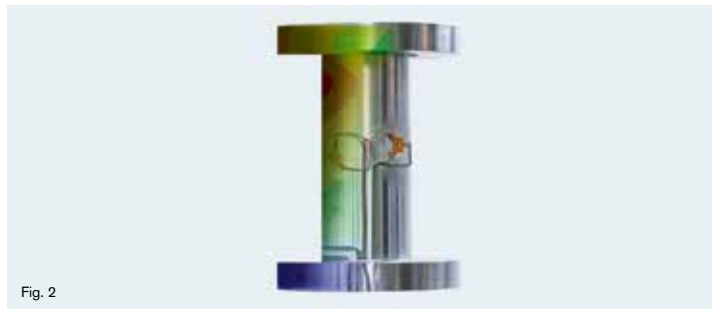


Fig. 2

HSA_sim – STRUCTURAL-MECHANICAL COMPUTATION & SIMULATION

Fig. 2
FEM Simulation of an
Impression Cylinder



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- Analytical and Numerical Component Design and Calculation
- FEM Simulation
- Verification and Validation
- Development and Implementation of Structural-mechanical Material Models
- Fluid-Structure Interaction



HSA_sim – COMPETENCE CENTRE



Competence Centre TZA – Technologiezentrum Augsburg

Technical Centre,
Conference Rooms,
Project Office

Competence Centre Augsburg University of Applied Sciences

- ANSYS Multi Physics, MSC.MARC and MSC.Nastran, running on a modern HPC Cluster
- Mechanics of Materials Lab with Material Analysis and Strain Gauge Equipment
- Wind Tunnel Lab, equipped with Pressure, Velocity and Resistance Measurement Technology
- Equipment for Thermal and Thermomechanical Analysis (DMA, DSC and TGA)