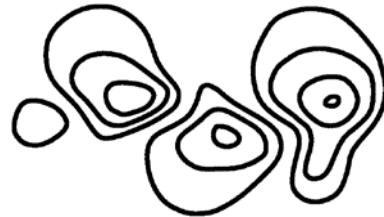

Chair and Institute of Fluid Mechanics

University of Karlsruhe (TH)

Germany

o. Prof. Prof. e.h. Dr.-Ing. habil. H. Oertel

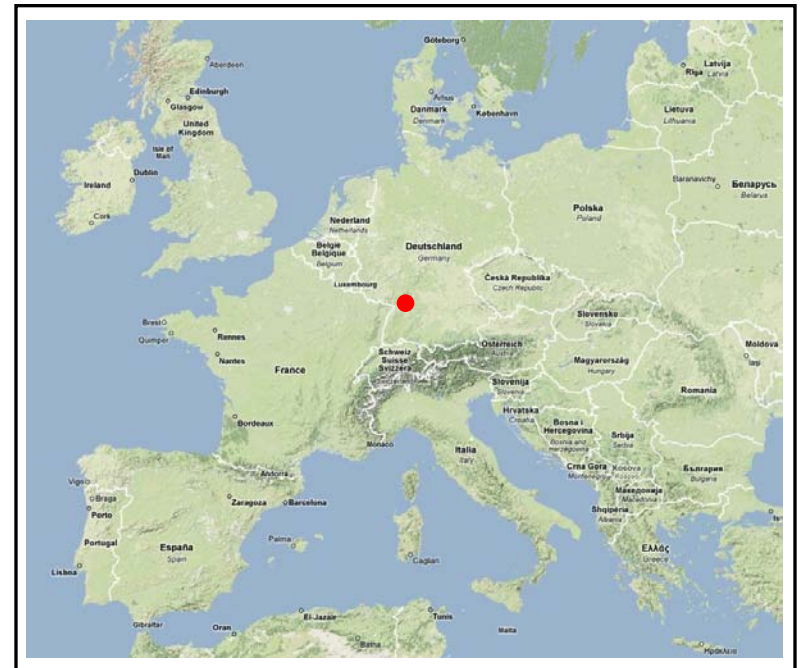


Karlsruhe Institut of Technology (KIT):

Cooperation between University of Karlsruhe (TH) and Forschungszentrum Karlsruhe GmbH

Employees
8.000
18.500
Students

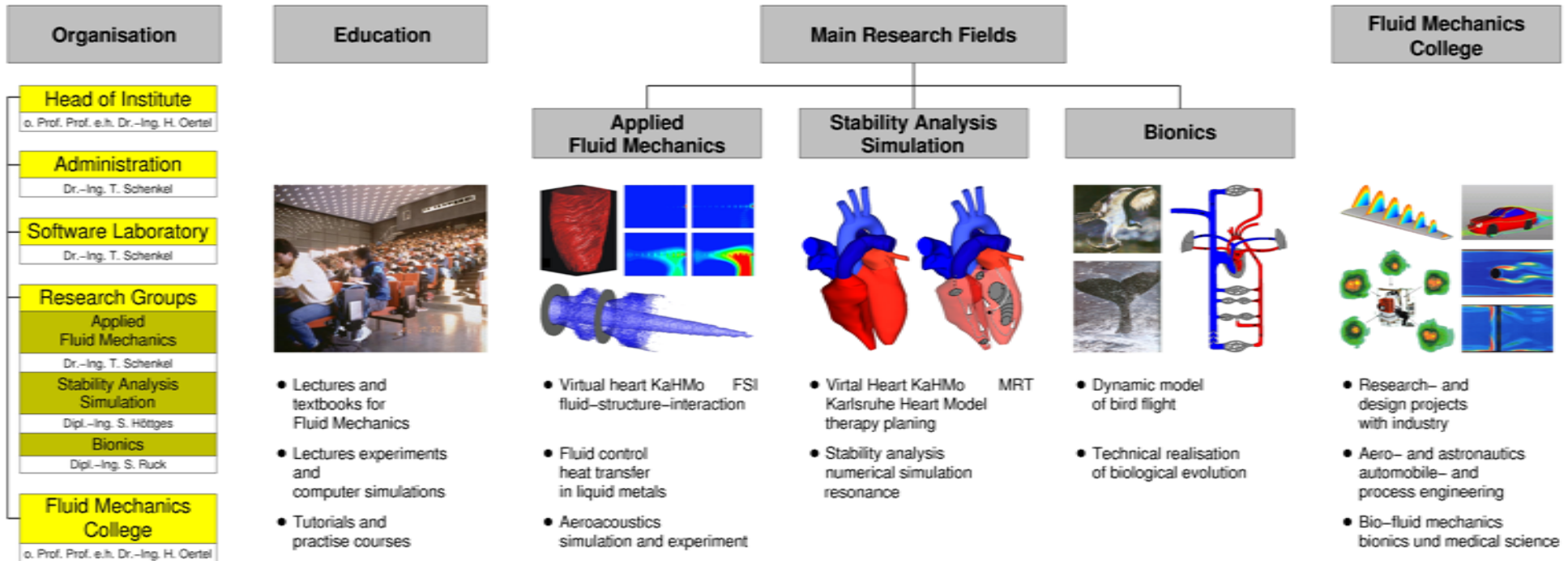
300
Professors







Chair and Institute of Fluid Mechanics



Education

Fluid Mechanics

**Applied Fluid
Mechanics**

**Math. Methods of
Fluid Mechanics**

Dimensional Analysis

**Numerical
Fluid Mechanic**

Training Courses

**Diploma Thesis/
Master Thesis**

Fluid Mechanics College



Organisation

Administration

Dr.-Ing. T. Schenkel

Director

o.Prof. Prof. e.h. Dr.-Ing. habil. H. Oertel



Software-Laboratory

Dr.-Ing. T. Schenkel

Research Groups

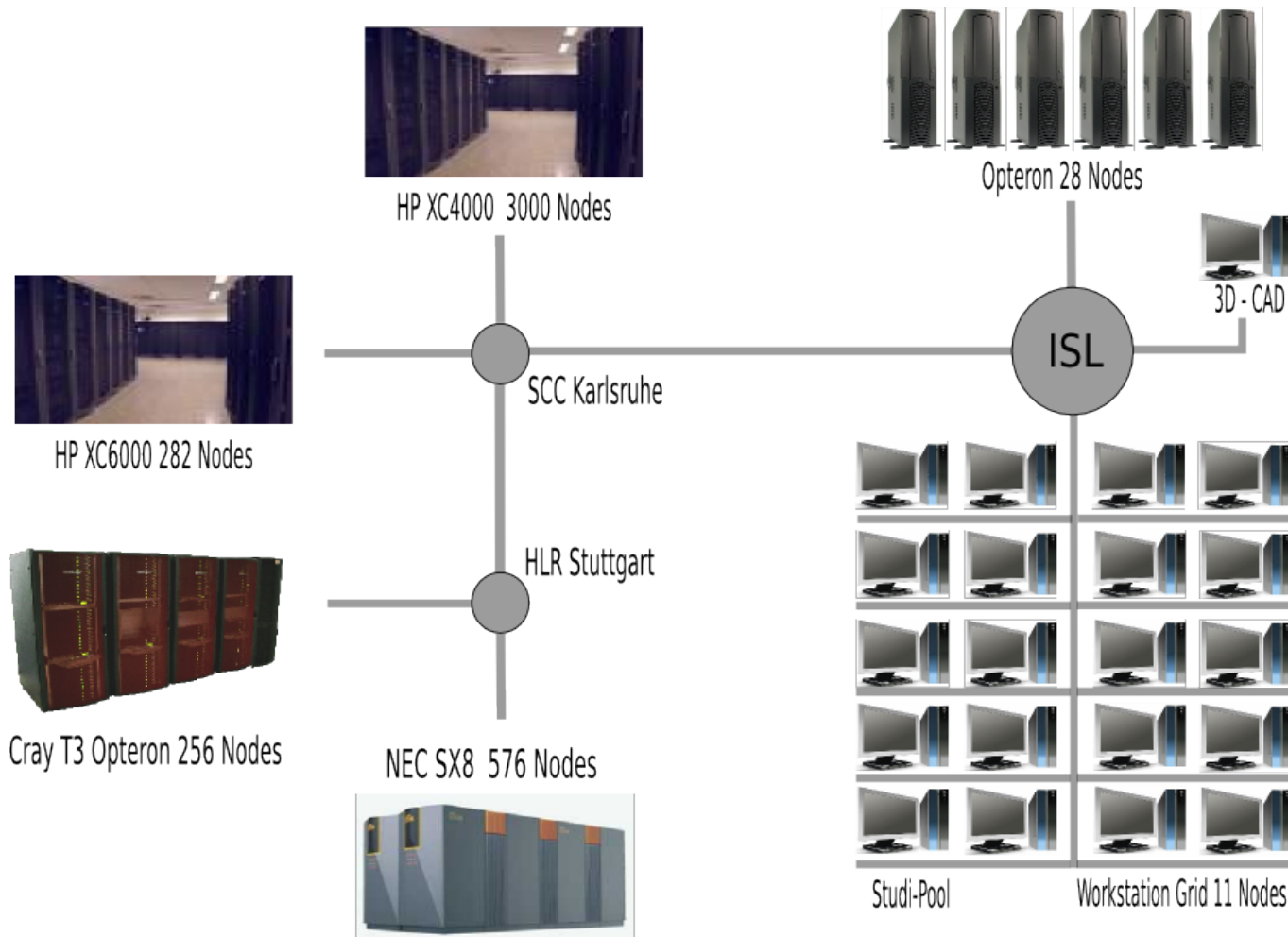
Dr.-Ing. T. Schenkel, Dipl.-Ing. S. Ruck,
Dipl.-Ing. S. Höttges,

Fluid Mechanics College

o. Prof. Prof. e.h. Dr.-Ing. habil. H. Oertel



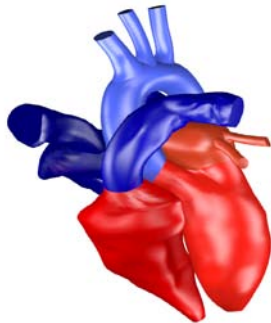
Infrastructure



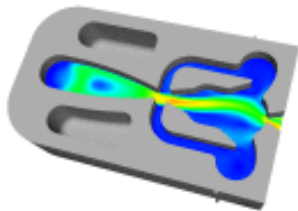
Main Research and Work Groups

Stability Analysis and Simulation

Dipl.-Ing S. Hoettges, Dipl.-Ing. K. Spiegel



- Virtual heart KaHMo MRT
Therapy planning of heart surgeries



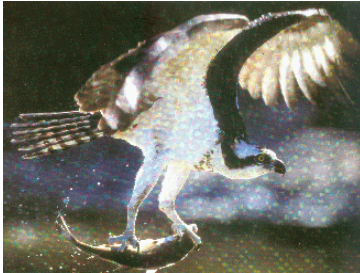
- Numerical Simulation
Stability analysis, resonance



Main Research and Work Groups

Bionics

Dipl.-Ing S. Ruck, NN



- Dynamic model of bird flight
- Technical realization of biologic concepts



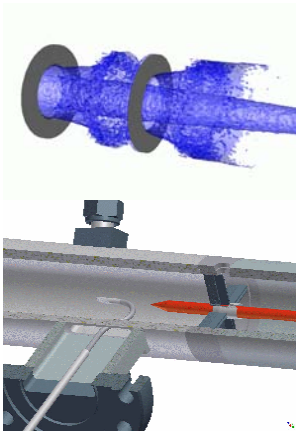
Main Research and Work Groups

Applied Fluid Mechanics

Dr.-Ing. T. Schenkel, Dipl.-Ing S. Krittian, Dipl.-Ing. M. Perschall



- Virtual heart KaHMo FSI
Fluid structure Interaction
Ventricular assist device



- Aeroacoustics
- Heat transfer in liquid metal



Fluid Mechanics College

Director: o. Prof. Prof. e.h. Dr.-Ing. habil. H. Oertel

Professors: 10

Ass. Professors: 4

PhD Students: 17

Undergr. Students: 15

Students: 600

Staff: 8

ISL: Applied Fluid Mechanics
Bio Fluid Mechanics
Bionics
Aeroacoustics
Turbulent Heat Transfer

IKET: Nuclear Technology
Fusion
Combustion





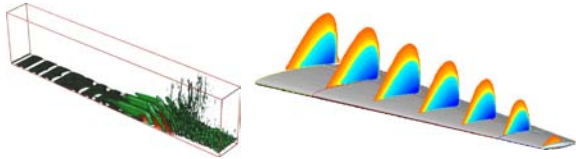
Fluid Mechanics College

University

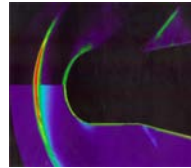
Research

Industry

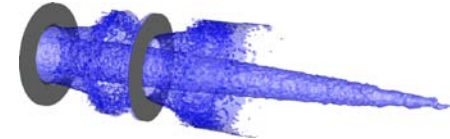
Aerodynamic



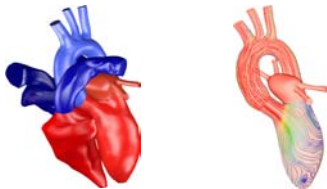
Aerothermodynamic



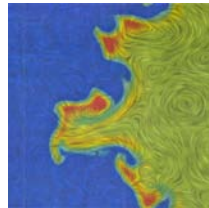
Aeroacoustics



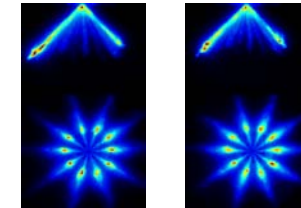
Bio fluid mechanics Bionics



Combustion



Multiphase Flow MHD-Flow



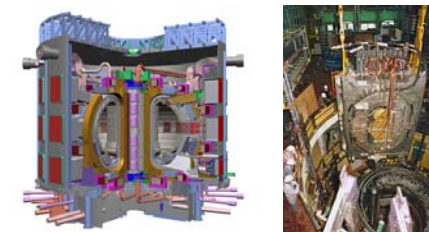
Medical Engineering



Process engineering Power engineering



Nuclear Technology



Thank you very much for your attention.

