CONTAKT

DR.-ING. MENG-MENG ZHOU
Ruhr-Universität Bochum
Institute for Structural Mechanics
IC / 6 / 169
Universitätsstraße 150
44801 Bochum

Email: mengmeng.zhou@rub.de
Tel: + (49) 234 / 32 - 29059
Fax: +(49) 234 / 32 - 14149

RD SME BOARD MEMBERS

PROF. DR. GÜNThER MESCHKE
SPEAKER
RUB/ Civil and Environmental Engineering/ Structural Mechanics

PROF. DR. WOLFGANG FRIEDERICH
DEPUTY SPEAKER
RUB/ Geosciences/ Geology, Mineralogy and Geophysics

PROF. DR. JÖRG RENNER
RUB/ Geosciences/ Geology, Mineralogy and Geophysics

PROF. DR. ERIK H. SAENGER
RUB/ Bochum University of Applied Sciences/ Reservoir Engineering & Petrophysics

PROF. DR.-ING. MARKUS THEWEs
RUB/ Civil and Environmental Engineering/ Tunneling & Construction Management

Full Map and further travelling information:
www.rub.de/anreise/index_en.html
The Research Department (RD) "Subsurface Modeling and Engineering" (SME) provides an interdisciplinary platform of top level research in computational modeling and simulation of engineered subsurface systems (tunneling, geothermal energy, energy storage, waste deposits) to enable optimized, more efficient and safe solutions for the future use of underground space.

The RD SME is aiming to exploit synergies from the cooperation of highly qualified PI’s and Junior PI’s across disciplines belonging to the universities of the University Alliance Ruhr (UAR), the Bochum University of Applied Science and Extra-University Research Organizations. The RD also actively promotes international cooperation in the area of subsurface modeling and engineering.

This year the workshop will be devoted to the general topic "Subsurface and Energy". It starts with two invited keynote lectures (Prof. Lyesse Laloui, EPFL Lausanne and Prof. Tom Schanz, Ruhr University Bochum), followed by presentations from members of the RD and external institutions. During lunch break there will be a poster session open for all members of the RD to share their recent research.

After the workshop, a General Assembly of the RD SME will be held.

10:00 Welcome
10:05 GEOMECHANICAL SOLUTIONS FOR GEO-ENERGY ISSUES  
Prof. Lyesse Laloui  
Swiss Federal Institute of Technology, École Polytechnique Fédérale de Lausanne, Switzerland

10:40 USE OF SALT CAVERNS FOR THE TEMPORARY STORAGE OF RENEWABLE ENERGY  
Prof. Tom Schanz  
Chair of Foundation Engineering Soil and Rock Mechanics, Ruhr University Bochum

11:15 MODELLING CONCEPT OF SEASONAL HEAT STORAGE IN FLOODED COAL MINES: CALCULATION AND VISUALIZATION OF COUPLED DENSITY AND VISCOITY DEPENDENT FLOW  
Dr. Christoph König  
delta h Ingenieurgesellschaft mbH