

# Poster presentations

6<sup>th</sup> Conference on the Mechanical Behavior of Salt "Saltmech6",  
Hannover, Germany 22-25 May 2007

<b>Poster Presentations (all three days - main session Tuesday afternoon)</b>	
<b>THM - processes in salt rocks - observations at laboratory and in-situ scales</b>	
J. Hesser & T. Spies	The influence of humidity on microcrack processes in rock salt
T. Popp, K. Salzer, M. Wiedemann, T. Wilsnack & H.-D. Voigt	Petrophysical and rock-mechanical characterization of the excavation-disturbed zone in tachyhydrite-bearing carnallitic salt rocks
I. Plischke	Determination of mechanical homogeneous areas in the rock mass using creep properties for a classification scheme
G. Zulauf, J. Zulauf & O. Bornemann	Deformation of a halite-anhydrite sequence under bulk constriction: Preliminary results from thermomechanical experiments
<b>Constitutive models for the mechanical behaviour of salt rocks</b>	
O. Schulze et al.	Comparison of advanced constitutive models for the mechanical behavior of rock salt – results from a joint research project – I. Modeling of deformation processes and benchmark calculations
U. Düsterloh & K.-H. Lux	Geomechanical investigations on the integrity of geological barriers with special regard to laboratory tests
W. Minkley & J. Mühlbauer	Constitutive models to describe the mechanical behavior of salt rocks and the imbedded weakness planes
U. Heemann, W. Sarfeld, C. Hillmann & B. Faust	Crack-initiation and propagation in rock salt under hydromechanical interaction
<b>Deformation processes at very large temporal and spatial scales - geological systems</b>	
X. Zhang, C.J. Peach, J. Grupa & C.J. Spiers	Stress relaxation experiments on compacted granular salt: effects of water
J. Schoenherr, Z. Schléder, J.L. Urai, P.A. Fokker & O. Schulze	Deformation mechanisms and rheology of Pre-cambrian rocksalt from the South Oman Salt Basin
S. Burliga, H.A. Koyi, P. Krzywiec & J. Gutowski	Prediction of future evolution of the Klodawa salt structure (Poland) based on geological record and analogue modelling data
P. Wilkosz, S. Burliga, J. Jaworska & R. Ratajczak	Diagenetic alteration of gypsum cap rocks of the Mogolino and Wapno salt domes - preliminary results
<b>THM-processes in crushed salt and in backfill materials - investigation &amp; modeling</b>	
F. Werunsky, Z. Hou & H.C. Moog	Coupled modelling of the THM behaviour of self healing salt based backfill
Th. Leusmann & H.-J. Engelhardt	The mechanical behavior of building materials based on the hydration of evaporite minerals
A. Pudewills	Modeling of hydro-mechanical behavior of rock salt in the near field of repository excavations
D. Stührenberg	Long-term laboratory investigation on backfill
K. Salzer, T. Popp & H. Böhnel	Mechanical and permeability properties of highly pre-compacted granular salt bricks
S. Heusermann & U. Heemann	In-situ measurements and 3-D model calculations of backfill compaction and EDZ development in waste disposal drifts in salt rock
M.L. Xie, H.C. Moog, W. Q. Wang, H.-J. Herbert, H. Shao & O. Kolditz	Reactive transport modelling in salt material based on Gibbs energy minimization
<b>Cavern design for gas storage and solution mining &amp; Abandonment of caverns</b>	
C.H. Yang, Y.P. Li, Q.H. Qian, D.H. Wei, F. Chen & X.Y. Yin	Usability evaluation of the existing solution-mined caverns for gas storage
D. Brückner, A. Lindert & M. Wiedemann	The Bernburg test cavern - in situ investigations and model studies on cavern abandonment
J.W. Chen, C.H. Yang, Y.P. Li & X.Y. Yin	The engineering thermal analysis for natural gas storage in deep salt formation
A. Reitze, H. von Tryller & F. Hasselkus	Execution and analysis of sonar surveys to support rock-mechanical evaluations