

Oral presentations

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

2007/05/22: 1. day - Tuesday			
9:00	0:30	BGR / Advisory and Organisation Committees	Welcome (A. Hollerbach) and Introduction (M. Wallner)
9:30	0:45	P. Bérest	Key note lecture
Deformation processes at very large temporal and spatial scales - geological systems			
10:15	0:25	J. L. Urai & C.J. Spiers	The effect of grain boundary water on deformation mechanisms and rheology of rock salt during long-term deformation
10:40	0:25	C. Hübscher & G.L. Netzeband	Evolution of a young salt giant: The example of the Messinian evaporites in the Levantine Basin
11:05	0:25	1. break (25 min.)	
THM - processes in salt rocks - observations at laboratory and in-situ scales			
11:30	0:25	K.D. Mellegard, K.L. DeVries & G.D. Callahan	Lode angle effects on the creep of salt
11:55	0:25	K.-H. Lux & S. Eberth	Fundamentals and first application of a new healing model for rock salt
12:20	0:25	T. Popp, M. Wiedemann, A. Kansy & G. Pusch	Gas transport in dry rock salt – implications from laboratory investigations and field studies
12:45	1:20	Lunch (80 min)	
14:05	0:25	N. Jockwer & K. Wiczorek	Excavation damaged zones in rock salt formations
14:30	0:25	O. Schulze	Investigations on damage and healing of rock salt
14:55	0:25	Y.P. Li, C.H. Yang, Q.H. Qian, D.H. Wei & D.A. Qu	Experimental research on deformation and failure characteristics of laminated salt rock
15:20	0:30	2. break (30 min.)	
Constitutive models for the mechanical behavior of rock salt			
15:50	0:25	A. Hampel & O. Schulze	The Composite Dilatancy Model: A constitutive model for the mechanical behavior of rock salt
16:15	0:25	R.-M. Günther & K. Salzer	A model for rock salt, describing transient, stationary, and accelerated creep and dilatancy
16:40	0:25	Z. Hou et al.	Comparison of advanced constitutive models for the mechanical behaviour of rock salt – results from a joint research project – II. Numerical modeling of two in situ case studies and comparison
17:05		Poster Session ---- Buffet	
2007/05/23: 2. day - Wednesday			
Studies of mining and mine abandonment			
9:00	0:25	W. Minkley, J. Mühlbauer & G. Storch	Dynamic processes in salt rocks - a general approach for softening processes within the rock matrix and along bedding planes
9:25	0:25	L. Rothenburg, & A.L.P. Carvalho, Jr. & M.B. Dusseault	Performance of a mining panel over tachyhydrite in Taquari-Vassouras potash mine
9:50	0:25	J.-P. Schleinig & V. Lukas	Monitoring of roof stability in salt mines
10:15	0:25	W.G. Liang, Y.S. Zhao, C.H. Yang & M.B. Dusseault	THMC numerical simulation and a solution mining method for thin salt deposits ... presented by: L. Rothenburg
10:40	0:30	1. break (30 min)	

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2007/05/23: 2. day - Wednesday (continuation)			
Studies of mining and mine abandonment			
11:10	0:25	S. Fahland, R. Eickemeier, S. Heusermann, H.-K. Nipp & J. Preuss	Three-dimensional geomechanical modelling of old mining rooms in the central part of the Bartensleben salt mine
11:35	0:25	R. Mauke, B. Stielow & M. Mohlfeld	Geotechnical control of critical construction elements during the backfilling activities of the ERAM – Experience gained in using the observation method
12:00	0:25	P. Kamlot, R.-M. Günther, N. Stockmann & G. Gärtner	Modeling of strain softening and dilatancy in the mining system of the southern flank of the Asse II salt mine
12:25	1:20	Lunch (80 min)	
THM-processes in crushed salt and in backfill materials - investigation & modeling			
13:45	0:25	C.-L. Zhang, T. Rothfuchs & J. Droste	Post-tests on thermo-mechanically compacted salt backfill
14:10	0:25	G.M. Pennock, X. Zhang, C.J. Peach & C. J. Spiers	Microstructural study of reconsolidated salt
14:35	0:25	S. Olivella & A. Gens	Thermomechanical modelling the behaviour of drifts in rock salt
15:00	0:30	2. break (30 min.)	
15:30	0:25	W.Q. Wang, R. Walsh, H. Shao, M.L. Xie & O. Kolditz	Simulation of long term thermal, hydraulic and mechanical interaction between buffer and salt host rock
15:55	0:25	H.-J. Herbert	Self sealing backfill (SVV) – A salt based material for constructing seals in salt mines
16:20	0:25	H. Alkan & W. Müller	Coupled modelling of physical/chemical retardation and transport of CQ/CH ₄ for a backfilled salt rock repository
16:45		End of the 2. day ---- Banquet	
2007/05/24: 3. day - Thursday			
Cavern design for gas storage and solution mining			
9:00	0:25	S.R. Sobolik & B.L. Ehgartner	Effects of cavern shapes on cavern and well integrity for the strategic petroleum reserve
9:25	0:25	J. Slizowski & K.M. Urbanczyk	Influence of effective stresses on strain rate around the gas storing cavern
9:50	0:25	R.F. Bekendam & J.L. Urai	Pillar deformation-induced surface subsidence in the Hengelo brine field, The Netherlands
10:15	0:25	M. Karimi-Jafari, P. Bérest & B. Brouard	Some aspects of transient behavior of salt caverns
10:40	0:30	1. break (30 min)	
Abandonment of caverns			
11:10	0:25	G. Hévin, C. Caligaris, J.G. Durup, O. Pichayrou & C. Rolin	Deep salt cavern abandonment: A pilot experiment
11:35	0:25	X.Y. Yin, C.H. Yang, Y.P. Li & J.W. Chen	Investigation on the long-term stability of gas storage in Jintan Salt Mine
12:00	0:25	B. Brouard, P. Bérest & M. Karimi-Jafari	Deep salt-cavern cavern abandonment
12:25	0:45	K.-H. Lux (including résumé)	Long-term behavior of sealed brine-filled cavities in rock salt mass - A new approach for physical modeling and numerical simulation
13:10		End of the meeting / conclusions / Lunch	