

FINAL Technical Agenda

7th US/German Workshop on Salt Repository Research, Design, and Operation

September 6 – Tuesday, NEA Salt Club Meeting same venue

September 7 - Wednesday

Day 1	8:00-8:45	Registration	
	8:45-9:00	Welcome organizers	F. Hansen, SNL W. Steininger, PTKA W. Bollingerfehr, DBE TEC
	9:00-9:20	Welcome DOE-EM	B. Forinash, Director National TRU Program
	9:20-9:40	Welcome BMWi	H.-C. Pape/H. Wirth, BMWi
	9:40-10:00	Welcome DOE-NE	J. Kotek, Assistant Secretary
	10:00-10:20	Germany's new approach for siting a HLW repository	V. Bräuer, BGR
	10:20-10:40	Break and <u>Group Photo</u>	
	Safety Case Issues		
	10:40-11:00	IAEA International perspectives on repository safety	A. Orrell, IAEA
	11:00-11:20	Safety Case: German approach (e.g. KOSINA + VSG)	J. Wolf, GRS
	11:20-11:40	Regulatory perspectives on the Safety Case	K. Economy, EPA
	11:40-12:00	Safety Case: US approach for WIPP	P. Shoemaker, SNL
	12:00-12:30	Discussion of key technical issues	Leaders: A. Orrell, IAEA J. Wolf, GRS
	12:30-13:30	Lunch	
	Breakout Session		
	13:30-15:30	Components of the Safety Case	
	13:30-13:50	Introduction Generic FEPs for salt formations	D. Sevougian, SNL J. Wolf, GRS
	13:50-14:10	First results of the KOSINA-project: technical concepts and geological and numerical modeling.	T. Kühnlenz, BGR + KOSINA-Team (DBE TEC, GRS, IfG)
	14:10-15:30	Discussion of key technical issues	Leaders: W. Bollingerfehr, DBE TEC D. Sevougian, SNL
	15:30-16:00	Break	
	Repository Design (focus: Operational Safety)		
	16:00-16:20	NEA/IAEA Workshop on operational safety: Report and discussion	W. Bollingerfehr, DBE TEC
	16:20-16:40	WIPP recovery and lessons learned	T. Reynolds, NWP
	16:40-17:00	The past Dutch disposal concepts in salt	E. Neeft, COVRA
	<u>DINNER @ Ted's Montana Grill Crystal City 7pm</u>		

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September 8 - Thursday

Day 2

Geomechanical Issues

9:00-9:20	Joint Project on constitutive models: Conclusions from phases I-III and introduction of project WEIMOS	A. Hampel, Hampel Consulting
9:20-9:40	Salt modeling	B. Reedlunn, SNL
9:40-10:00	Further important topics in Rock/Salt/Geomechanics	S. Fahland, BGR N. Müller-Hoeppe, DBE TEC
10:00-10:20	Arising issues in field, laboratory and modeling	L. Van Sambeek, RESPEC S. Buchholz, RESPEC
10:20-10:40	Break	
10:40-11:00	Comparison of salt cavern and repository modeling	S. Sobolik, SNL
11:00-11:20	Fluid dynamic processes within a closed repository with or without long-term monitoring	R. Wolters, TUC K.-H. Lux, TUC
11:20-11:40	Closure of the Teutschenthal backfill mine – challenge for a geomechanical safety concept	T. Popp, W. Minkley, IfG
11:40-12:00	Wrap-Up	Leaders: A. Hampel and B. Reedlunn
12:00-13:30	Lunch	

Plugging and Sealing

13:30-13:50	Full scale demonstration of plugs and seals (EC-DOPAS-Project)	K. Wieczorek, GRS
13:50-14:10	Shaft seals for HLW-repositories (ELSA project)	W. Kudla, TU BAF P. Herold, DBE TEC
14:10-14:30	Asse II mine - Retrieval of the waste taking into account the best possible emergency preparedness	M. Mohlfeld, BfS
14:30-14:50	Current WIPP considerations of reconsolidating salt	C. Herrick, SNL
14:50-15:30	Discussion of key technical issues	Leaders: K. Wieczorek, GRS N. Müller-Hoeppe, DBE TEC
15:30-16:00	Break	

Breakout Session

16:00 – 18:00	Percolation Issue	
16:00-16:20	Capillary controls on brine percolation in rock salt	M. Hesse, U Texas M. Prodanovic, U Texas
16:20-16:40	Comments of the German Association for Repository Research (DAEF)	T. Popp, IfG W. Minkley, IfG
16:40-17:00	Origin of fluids in salt domes	J. Hammer, BGR G. Zulauf, Uni Frankfurt
17:00-18:00	Discussion—Is percolation a safety issue for a HLW repository?	Leaders: K. Kuhlman, SNL J. Mönig, GRS

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September 9 - Friday

Day 3	Special Topics		
	09:00-09:20	Impact of retrieval requirements on repository design	P. Herold, DBE TEC
	09:20-09:40	US deep borehole program status	T. Gunter, DOE
	09:40-10:00	Basin-scale density-dependent groundwater flow near a salt repository	A. Schneider, GRS K. Kuhlman, SNL
	10:00-10:20	Issues on ageing of spent fuel storage systems	K. Sorenson, SNL H. Völzke, BAM
	10:20-10:40	Break	
	10:40-11:00	Chemistry/Thermodynamic database summary	M. Altmaier, KIT-INE, D. Reed, LANL
	11:00-11:20	Announcements: 8 th US/German Workshop SALTMECH 2018 & 9 th US/German Workshop	E. Neeft, COVRA S. Fahland, BGR
	11:20-12:00	Wrap-Up (volunteers for chapter assignments for Proceedings)	F. Hansen, SNL W. Steininger, PTKA W. Bollingerfehr, DBE TEC
	12:00-13:30	Lunch	

- **OPTIONAL:** Kathleen Economy has graciously secured 30+ tickets to take the elevator up to the top of the **Washington Monument at 3pm on Friday, September 9**. Once up in the 'needle' there is no time limit, so we will allow overlap time for others coming before or after our slotted time to converge.
- **OPTIONAL:** After the monument tour on Friday, September 9, those who are interested are invited to the Old Ebbitt Grill (only a few steps from the White House) for a non-hosted dinner.
<http://www.ebbitt.com/about/history>



<http://energy.sandia.gov/energy/nuclear-energy/ne-workshops/2016-usgerman-workshop-on-salt-repository-research-design-and-operation/>