

MONDAY 3rd September 2018

07:30 20:00 **Registration at Ground Floor**

08:00 17:00 **Hall 2B**

Short Course 1

Rehabilitation of Historic Mine Workings – A Phased Approach

Category: Mining, Reclamation and Remediation

S.Longo/J.Taylor/D.Kennard/J.Scholte

17:00 21:00 **ICEBREAKER at Ground Floor (Music: The Age of Aquarius, Hamburg, Germany)**

Hall 2A

Short Course 1

Geotechnical Systems that Evolve with Ecological Processes

A.Fourie/M.Tibbett

Room SR 219

Short Course 2

Advangeo®: Artificial neural networks for analyzing and

predicting geological and geotechnical process

M.Schipek/P.Hielscher



DMT



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TUESDAY 4th September 2018

07:30 22:00 **Registration at Ground Floor**

09:00 10:00 **Hall 1AB Opening and Information (Chair C.Drebenstedt)**

10:00 10:40 **Keynote** *Words, words, words: But what is the matter, my closure lords* **C.Grant**

10:40 11:20 **Keynote** *Filling, remediation and management of pit lakes by using mine water – an update* **M.Schultze**

11:20 12:00 **Keynote** *The WISMUT Project* **M.Paul**

12:00 13:00 **Lunch at ground floor**

13:00 13:20 **Hall 1AB (Chair M.Paul)**

P.Schmidt *Radiological Aspects of Mine Closure and Site Remediation at the Wismut site of Schlema-Alberoda*

13:20 13:40 **U.Barnekow** *The Wismut Uranium Tailings Remediation Project – Progress achieved with respect to diversifying legal requirements*

13:40 14:00 **A.Hiller** *Knowledge Transfer within the Wismut Environmental Rehabilitation Project*

14:00 14:20 **T.Metschies** *Safe Management and Remediation of abandoned Uranium Mining Sites in Central Asia – A Review of numerous Feasibility Studies*

14:20 14:50 **Break at ground floor**

14:50 15:20 **Hall 1AB (Chair D.Sonnen)**

D.Sonnen *Organization and legal framework for the remediation of abandoned lignite mining sites in East Germany*

15:20 15:40 **F.C. Benthous/O.Totsche** *In-lake neutralization of lignite mining end lakes*

15:40 16:00 **M.Kuyumcu** *Safekeeping of potash mining*

16:00 16:20 **D.Knoche** *Forest Reclamation in the Lusatian Lignite District A wounded landscape heading for new horizons*

Hall 1CD

Deutsch-Russisches-Rohstoffforum

Internal event, only for members of the DRRF

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16:20 16:30 **Information about tours**

16:30 17:10 **Break at ground floor**

Hall 1AB Topic 1 (Chair N.Hoth)

Legal, financial, socio-economical and organizational aspects

Hall 1CD Topic 2 (Chair J.Chapmann)

Planning, modelling and monitoring

17:10 17:30 **I.Watson** *The state of mine closure in South Africa*

M.Schipek Advangeo® - Machine Learning for Geological Process Modelling: Background, Software, Application Cases

17:30 17:50 **J.Amphlett** *Innovative Approach to Stakeholder Engagement on the Surface Design for the Closure of Canada's Giant Mine*

A.Freitas *Multicriteria Decision Approach to Support Selection of Post Closure Land Use*

17:50 18:10 **T.Volnei** *Incorporating the closure management in the company's strategic guidelines*

B.Chai *Mine Geo-environment Risk Management Based on Multiple Criteria Decision Making*

18:10 18:30 **N.Pavlovic** *Sustainable Long-term Planning of the Kostolac Coal Basin Opencast Mines Closure*

S.Dressler *An algorithm approach to optimising modelling of rehabilitation surface profiles for back-filled spoils*

18:30 22:00 **BBQ at Ground Floor (Music Kristian Schulze and The Syndicate, Freiberg, Germany)**

WEDNESDAY 5th September 2018

08:00 18:00 **Tour 1**

Uranium Mining (Bus Eilenburger)

The Miracle of Bad Schlemma – A heavily devastated uranium mining site is now again a spa

Tour 2

Uranium Mining (Bus Herzum)

The Wismut Uranium Tailings Remediation Project – Progress achieved with respect to diversifying legal requirements

Tour 3

Lignite Mining (Bus Der Markkranstädter)

Boat and Bus Tour to Lake Markkleeberg and MIBRAG active Open Cast Mine United Schleenhain



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THURSDAY 6th September

08:00 **Registration at Ground Floor**

08:15 08:30 **Hall 1AB Information (Chair A.Fourie)**

08:30 09:00 **Keynote** *Reclamation of Illegal Amber Mining Areas in Eastern Europe* **C.Drebenstedt**

09:00 09:30 **Keynote** *The importance of geochemistry in closure design: A case study for a site in Laos* **C.Linklater**

09:30 10:00 **Keynote** *EIT RawMaterials, the largest global network in the raw materials sector* **K.Kubacki**

10:00 10:30 **Break at ground floor**

Hall 1A Topic 1 (Chair K.Svobodova) Legal, financial, socio-economical and organizational aspects		Hall 1B Topic 2 (Chair H.Mansel) Planning, modelling and monitoring		Hall 1CD Poster, Pitch, Presentation (Chair T.Hand) Sponsors and Exhibitor Presentations		Hall 2AB Topic 5 (Chair I.Contrucci) Mine flooding, balancing of groundwater deficits and pit lakes	
10:30	10:50	P.Goerke-Mallet <i>The development of a "Mine Life Cycle information system"</i>	I.Hutchison <i>Risks in Planning and Designing for Mine Closures</i>	10:30	dmt-Group	A.Biesheuvel <i>Long-term effects of closure of hard coal mines, The Netherlands</i>	
10:50	11:10	J.Heyes <i>What Comes After Mining? How Regulatory Frameworks Can Enable Creativity</i>	H.Büttcher <i>Modeling the reduction of iron loads from lignite mining dump groundwater to the Pleiße river considering land use changes</i>	10:45	Dammann/MOVAB/Allets	B.Luinstra <i>Closure Water Balance Model to Support Closure Designs for the Western and Central Development Areas at the Sepon Mine, Laos</i>	
11:10	11:30	L.Baasan <i>Establishing new regulations on Mining Closure</i>	S.Finucane <i>Functional benchmarking to reduce uncertainty in planning the closure of a waste rock landform at a Western Australian iron ore mine</i>	11:00	MDA	L.Henkel <i>Density stratification of mine water bodies in the Ruhr coalfield – A hydrogeochemical approach</i>	
11:30	11:50	L.Spagnuolo <i>Faro Mine Remediation Project: Working with Indigenous Partners to Achieve Mine Closure</i>	E.Falck <i>The Life-Cycle of Mines - Adding Value to Host Communities by Integrating Environmental Remediation and Decommissioning</i>	11:10	MIBRAG Consulting	M.Schultze <i>Realising Successful Beneficial End Uses for Pit Lakes</i>	
11:50	12:10	M.Kauthen <i>Creating positive mine closure legacy via agribusiness development</i>	M.Pouresmaeli <i>Presenting a risk-based model to reduce the probability of pre-mature mine closure in Iran</i>	11:20	LEAG	A.Marwan <i>STAMS1: New tools for monitoring flooded and non-flooded mine shaft</i>	
12:10	13:10	Lunch at ground floor		11:30	TRE ALTAMIRA		
				11:40	G.U.B.		
Hall 1A Topic 1 (Chair M.Kauthen) Legal, financial, socio-economical and organizational aspects		Hall 1B Topic 2 (Chair S.Finucane) Planning, modelling and monitoring		Hall 1CD Poster, Pitch, Presentation (Chair D.Berger) Posterpresentations, Pitches		Hall 2AB Topic 5 (Chair M.Schultze) Mine flooding, balancing of groundwater deficits and pit lakes	
13:10	13:30	M.da Rocha Dutra <i>Analysis and comparison of Brazilian legislation related to mine closure considering international scenario</i>	J.Chapman <i>Closure Planning on a Large-Scale – Approach to Optimising PFS Closure Designs for the Western and Central Development Areas</i>	Speakers Corner		S.Westermann <i>Hydraulics of Underground Mine Flooding – Optimization of Prediction and Monitoring Procedures</i>	
13:30	13:50	C.Drebenstedt <i>Calculation of Mine Closure Finance</i>	R.Azevedo <i>Comparisons between numerical and field results of instrumented experiments of cover systems for gold mine tailings</i>	<i>Do you have a problem or innovative solutions?</i>		R.Liedl <i>Groundwater management with deep sealing walls</i>	
13:50	14:10	P.Swart <i>Residual risk policy and processes – what is holding the Industry back from achieving mine closure and lease relinquishments?</i>	S.Higson <i>Landscape and Visual Considerations in Mine Closure – An International Overview</i>	<i>Find together!</i>		I.Contrucci <i>Mining subsidence in +F66a partially flooded abandoned mine: aseismic ground movement and consequences for post-mining risk management</i>	
14:10	14:30	R.Salmon <i>New Guidelines for Post mining risks management in France</i>	N.Slingerland <i>Landscape evolution modelling of large sand tailings dams</i>	<i>Short presentations of 2-3 minutes for poster presenter, problem owner and consultants.</i>		J.Wolff <i>Inde lake – from mining to sailing</i>	
14:30	14:50	R.Sayoga Gautama <i>Regulation on mine closure in Indonesia</i>					
14:50	15:30	Break at ground floor					
Hall 1A Topic 1 (Chair P.Goerke-Mallet) Legal, financial, socio-economical and organizational aspects		Hall 1B - Topic 10 (Chair M.Lazar) Aftercare, marketing, reorganization of land, geotourism		Hall 1CD - EIT Raw Materials (Chair K.Kubacki) Presentations		Hall 2AB - Topic 7 (Chair A.Fourie) Geotechnical aspects	
15:30	15:50	D.Schröder <i>DMT PILOT 3D – Application examples for precise positioning and 3D documentation underground</i>	S.Longo <i>Coal, Gold and Uranium – How to Rehab Historic Mines for Urban Development</i>	T.Hand <i>Mining for Social Acceptance</i>		D.Colombo <i>Satellite remote sensing to monitor surface deformation over closed mines</i>	
15:50	16:10	G.Byrne <i>Benchmarking Closure Provisions</i>	H.Lacy <i>Benchmarking; Bringing the lessons from the past into the future</i>	K.Zimmermann <i>Supervision of tailings - EIT project STINGS</i>		J.Granda <i>Remote monitoring of ground subsidence by means of radar satellite data</i>	
16:10	16:30	Ch.Roumpos <i>Planning and implementing surface mines reclamation works under the new EU strategy for the transition of lignite intensive regions to a post-mining era</i>	A.Semmel <i>Master Plan of Botanical Garden: An Ultimate Achievement of PT NMR Mine Closure</i>	T.Kappernagel <i>RE-ACTIVATE, a second chance – for mining and environment</i>		I.Contrucci <i>On the relevance of seismic risk assessment in abandoned mining districts: the case of the Gardanne coal mine, Provence, France.</i>	
16:30	16:50	J.Sanders <i>The impacts to closure residual risk from poorly-managed change during mining operations; life of mine challenges and opportunities</i>	A.Haagner <i>Bioenergy production as a post-mining land use</i>	J.Gutzmer <i>reCOMine - Environmental Resource Technology made in Erzgebirge</i>		Z.Liu <i>Probabilistic assessment of tailings dam performance using Bayesian Network</i>	
16:50	17:10	K.Svobodova <i>Coal policy in the Czech Republic: advocacy coalitions and key organizational actors</i>	M.Lazar <i>Researches regarding the population exigencies in the conditions of recovery and reuse of the remaining gaps of the quarries</i>				
19:00	24:00	Auerbachs Keller Galadinner (Grimmaische Str. 2-4, 04109 Leipzig) Dresscode ‚Smart Casual‘					

FRIDAY 7th September 2018

Start	End				
08:00		Registration at Ground Floor			
08:45	09:00	Hall1AB Information (Chair M.Tibbett)			
09:00	09:30	Keynote <i>Integrating biodiversity into after-use planning – case study from the Cement sector</i> C.Jewell			
		Hall 1AB - Topic 8 (Chair M.Tibbett) Biodiversity and ecological aspects		Hall 1CD- Topic 6 (Chair C.Linklater) Hydrogeochemistry, AMD and treatments	
09:30	09:50	S.Walter <i>Benefits and necessity of communicating biodiversity in school education - A practical example of communication science</i>		Ch.Hildmann <i>Reduction of iron and sulphate in the groundwater by stimulated microbial sulphate reduction</i>	
09:50	10:10	D.Septriana <i>The Environment Condition Before and After Mining In Iron Sand Mining of Cilacap, Central Java, Indonesia</i>		P.Kinghan <i>Determining the Geochemistry of Soil and Water Using Drone based Hyperspectral Analysis</i>	
10:10	10:30	M.Lazar <i>Conceptual model for the ecological land reconstruction of open pit mining areas</i>		N.Chevé <i>Effects of Compacted Soil Cover and Tree Planting on the Water Balance of a Tailing Storage Facility Dyke Made of Waste Rock</i>	
10:30	11:00	Break at ground floor			
		Hall 1A - Topic 8 (Chair C.Jewell) Biodiversity and ecological aspects		Hall 1CD- Topic 6 (Chair GD Breedveld) Hydrogeochemistry, AMD and treatments	
11:00	11:20	G.Gundensambuu <i>Preliminary results of the rehabilitation experiment conducted on waste rock dump in Gobi region of Mongolia</i>		R.Botha <i>A Stitch in Time Saves Nine: A case study of the importance of quality water models and surface rehabilitation to optimise closure options</i>	
11:20	11:40	M.Gil Martinez <i>Long-term effects of trace elements contamination on soil microbial biomass and enzyme activities</i>		S.Lekoadu <i>Characterisation and the potential environmental pollution from the waste rock dumps at the abandoned Edendale lead mine</i>	
11:40	12:00	B.Wernick <i>Britannia Mine Remediation Project: What Should Restored Ecological Function of an Intertidal Zone Look Like at a Historic Mine Site at Closure?</i>		M.Weber <i>A case of river recovery: a Brazilian experience</i>	
12:00	12:20	Ch.Hildmann <i>Biodiversity - species and habitats in post-mining landscapes of the Lusatian and Central German mining district</i>		A.Kabambi <i>Preliminary performance of a CCBE made entirely of mining materials to control acid mine drainage at LaRonde mine, Québec, Canada</i>	
12:20	13:20	Lunch at ground floor			
		Hall1 A - Topic 8 (Chair Ch.Hildmann) Biodiversity and ecological aspects		Hall1CD- Topic 6 (Chair N.Hoth) Hydrogeochemistry, AMD and treatments	
13:20	13:40	J.Melgarejo <i>Work of mine closure and its influence with the environment</i>		D.Claus <i>In-Lake technique - 10 years of research and development activities lasting Cooperation's between TU Freiberg, MOVAB-D GmbH and industrial partners</i>	
13:40	14:00	F.Uhlig-May <i>Recultivation in the Lusatian Lignite district - varied use of a new landscape</i>		P.Schmidt <i>Chalk products for mine water neutralization</i>	
14:00	14:20	J.Wolff <i>Biodiversity as a result of sustainable rehabilitation in the Rhenish lignite-mining area</i>		GD Breedveld <i>Remediation of acid mine drainage impacted sites after closure of copper mines in Norway</i>	
14:20	15:30	Hall 1A Closing and MineClosure2019 (Chair C.Drebenstedt)			
15:30	16:30	Fare well reception			
				Hall 2AB - Topic 3 (Chair M.Gunsinger) studies for mine closure Case	
				Ch.Bagnall <i>Rethinking Closure Planning: A Case Study of Nickel West</i>	
				B.Weeks <i>Investigations and Design for the Closure of Historic Arsenic-Bearing Tailings at Canada's Giant Mine</i>	
				Ch.Waygood <i>Innovative landform design to address some unique challenges in the Pilbara, Western Australia</i>	
		Hall 1B- Topic 9 (Chair C.Ortiz Calderon) Handling of contamination and soil formation		Hall 2AB - Topic 3 and Topic 4 (Chair B.Weeks) Case studies for mine closure/Mine closure and mining infrastructure	
		C.Muzerengi <i>Pollution Vulnerability of Agricultural Soils near the Klein Letaba Abandoned Gold Mine, Limpopo Province of South Africa</i>		S.E.Mhlongo <i>Appraisal of Strategies for Treatment of Abandoned Mine Shafts in the Giyani-Mesina Area, South Africa</i>	
		L.K.Kabbe <i>Fluid Fine Tailings Dewatering Processes for Oil Sands Reclamation</i>		M.Baida <i>Gillervattnet Efterbehandling</i>	
		M.Haubold-Rosar <i>Humus enrichment as a key factor for successful reclamation of mine soils – results of research in the Lusatian mining district</i>		W.Macdonald <i>The highway to hell – Proclamation and transfer of Kleinzee Township (Northern Cape, South Africa) A case study in how not to transform a mining town</i>	
				G.Dale <i>A process-based approach to mine rehabilitation decision making illustrated through Bayesian modelling and a risk-based approach to practices for dispersive spoil rehabilitation</i>	
		Hall1B- Topic 9 (Chair K.Zimmermann) Handling of contamination and soil formation		Hall2AB - Topic 3 and Topic 4 (Chair M.Baida) Case studies for mine closure/Mine closure and mining infrastructure	
		I.Kwan <i>Managing Contamination considerate of Contaminated Sites Legislation in a mining context - a case study</i>		M.Gunsinger <i>Integrated Design-Build to Rehabilitate Tailings and Crown Pillars at a Decommissioned Uranium Mine Site</i>	
		C.Ortiz Calderon <i>Use of biocrusts forming cyanobacteria to promote plant establishment and to improve soil quality for mine rehabilitation</i>		J.Cassie <i>The North Fork Rose Creek Realignment Project - Urgent Works Before Final Remediation</i> <i>The North Fork Rose Creek Realignment Project - Urgent Works Before Final Remediation</i>	
				U.Köhler <i>Overburdenmanagement for an efficiency recultivation</i>	