

Conference Secretariat

Leipziger Straße 29, Clement-Winkler-Bau (1 st floor), 09596 Freiberg, Germany
 Opening Hours:

Sunday, 21st September 2014 **16:00 -20:00**
 Monday, 22nd September, 2014 **08:00-20:00**
 Tuesday, 23rd September, 2014 **08:00-18:00**
 Wednesday, 24th September, 2014 **08:00-18:00**
 Thursday, 25th September, 2014 **07:30- 09:00**

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Uranium Mining and Hydrogeology 2014 International Conference and UMREG 2014 Program

Sunday		September 21st		
10:00 - 17:00	Workshop: Groundwater Modeling for mine sites	Registration from 16:00		
18:00 - 20:00	Ice Breaker Party			
Monday		September 22nd		
Lecture Hall WIN-1005				
9:00	Opening Ceremony			
9:05	Vice rector for research speech			
9:10	Dean of Faculty Geoscience, Geoengineering and Mining			
9:15	Saxon State Ministry of Environment and Agriculture Representative			
9:20	Representative of IAEA speech			
9:30	1. Plenary Talk Helmut Mischo: Uranium boom in Namibia			
10:00	2. Plenary Talk Peter Woods: IAEA initiatives supporting good practice in uranium mining worldwide			
10:30	Coffee Break			
11:00	3. Plenary Talk Jordi Bruno: The development and use of hydrogeochemical models for the management of uranium cycle legacies			
11:30	4. Plenary Talk Bernd Lottermoser: Rare earth elements in Australian uranium deposits			
12:00 - 13:00	Lunch Break			
Session I: Uranium mining (Lecture Hall WIN-1005)		Session III: Cleaning up technologies for water and soil (Lecture Hall WIN-2258)		
Chair Person: Peter Waggitt		Donald Metzler		
13:00	Woods Peter	Hydrogeological testing for ISL uranium mining: some Australian experience	Brugge Doug	The externalized costs of uranium mining in the US
13:20	Vance Robert	Managing environmental and health impacts of uranium mining	Burow Katja	Microbial consortia in radionuclide-rich groundwater
13:40	Waggitt Peter	Uranium, rare earths and norm: mining and current prospects in Australia's northern territory	Coetzee Henk	Flooding of the underground mine workings of the old Witwatersrand gold/uranium mining areas: acid mine drainage generation and long term options for water quality management
14:00	Carvalho Fernando	Radiation exposure and environmental remediation at the Urgeiriça mine site, Portugal	Flesch Klaus	Assessment of the success of rehabilitation at remediated waste rock piles of the former uranium mining from the supervisory authority perspective by the example of the Schlema-Alberoda (Germany)

Lecture Hall WIN-1005

Leipziger Str. 29, Winkler-Bau (1st floor), 09596 Freiberg

Lecture Hall WIN-2258

Leipziger Str. 29, Winkler-Bau (2nd floor), 09596 Freiberg

Lecture Hall GEL-0001

Leipziger Str. 23, Gellert-Bau (ground floor), 09596 Freiberg, Germany

14:20	Djenbaev	Bekmamat	Modern hydrochemical condition of river Mailuu-Suu and environmental problems of the Fergana Valley	Francis	Arokiasamy	Microbial effects on uranium speciation
14:40	Falck	Eberhard	Social licensing and stakeholder communication in uranium exploration and mining	Grandin	Anna	Uranium induced stress promotes fungal excretion of uranium/metal stabilizing ligands: analysis of metal-organic compounds with size exclusion chromatography and inductively coupled plasma-MS detection.
15:00	Winde	Frank	Virtual geographical environments (VGE) as tool to map human exposure to mining-related radionuclides and selecting sampling populations in epidemiological studies	Alcides	Pereira	Mobilization of uranium by bacterial isolates from a biofilm in a high radon activity environment
15:20 - 15:40	Coffee Break					
	Session I: Uranium mining (Lecture Hall WIN-1005)			Session III: Cleaning up technologies for water and soil (Lecture Hall WIN-2258)		
	Chair Person: Bolat Uralbekov			Bernd Lottemoser		
15:40	Ospanova	Gulzhan	Uranium mining and processing in Kazakhstan	Jenk	Ulf	At the crossroads: flooding of the underground uranium leach operation at Königstein (Germany) – A 2014 status brief
16:00	Märten	Horst	Optimization of uranium in-situ recovery based on advanced geophysical surveying and borehole logging technologies	Paul	Michael	Water management as a challenge for uranium mine closure under humid conditions
16:20	Falck	Eberhard	Social licensing in uranium mining: empowering stakeholders through information	Liefferink	Mariette	Current reclamation of historical uraniumiferous tailings dams and sand dumps – exacerbating the mess or minimising the mining footprint? Case studies within the Witwatersrand goldfields.
16:40	Schmidt	Gerhard	Does wind energy production cause more radioactive doses than nuclear power plants?	Metschies	Thomas	Challenges of water management during tailings remediation – site and catchment-specific focus
17:00	Schnug	Ewald	Uranium in phosphate fertilizers – review and outlook	Metzler	Donald	Cleanup of the Moab uranium mill tailings remedial action project site
17:20	Sjöberg	Viktor	Release of uranium from weathered black shale in meso-scale reactor systems – first year of data			
17:40	Perez Sanchez	Danyl	Fuzzy MDCAS for the remediation of uranium tailings			
18:00 - 20:00	Poster Session Winkler-Bau : Leipziger Str. 29					

Tuesday	September 23rd							UMREG MEETING	
	Session I: Uranium mining (Lecture Hall WIN-1005)			Session III: Cleaning up technologies for water and soil (Lecture Hall WIN-2258)			Lecture Hall GEL-0001		
	Chair Person: Helmut Mischo			Henk Coetzee					
8:30	Uralbekov	Bolat	Heavy metals and natural radionuclides in the Syr Daria river water (Kazakhstan)	Monken Fernandes	Horst	Overcoming the barriers to implementation of the remediation of uranium mining legacy sites	Jakubick, Waggitt, Metzler	The New U Production Cycle	
8:50	Vakanjac	Boris	Establishment of a data base of uranium anomalies and zones in Mongolia	Ogar	Anna	Phytostabilization of uranium-containing shale residues using <i>Hieracium Pilosella</i>	Peter Woods (IAEA)	IAEA on UMREG	
9:10	Scholtz	Nico	Uranium mining and exploration in the Namib desert, Namibia	Kubrová	Jaroslava	Do Macrofungi accumulate uranium?	Bob Vance (OECD/NEA)	Uranium 2014: Resources, Production and Demand	
9:30	Beaugelin-Seiller	Karine	Is enough information available to derive an overall EQS for uranium in French freshwaters according to European Guidance	Rapantova	Nada	Mine water quality evolution at abandoned uranium mines in the Czech Republic			
9:50	Wang	Hao	Technical status of mine water control in China and its development strategy	Reinhard	Klaus	Glass bead filter media: higher efficiency and reduced O & M costs			
10:10	Winde	Frank	Assessing risks associated with rising uraniferous mine water on underground infrastructure and water resources in and around Johannesburg (South Africa)	Richter	Katja	Soil hydrological monitoring in the framework of the remediation and long-term safeguard of uranium	Cindy Vestergaard (DK)	Governing Uranium: Governing Uranium: From China to Brazil	
10:30 - 10:50	Coffee Break								
	Chair Person: Eberhard Falck			Stefanie Hurst					
10:50	Phrommavanh	Vannapha	Characterizing lake sediments downstream from former uranium and metals mines	Schmidt	Peter	The new European radiation protection safety standards as basis to assess the radiological state achieved at remediated uranium legacy sites at Wismut in Germany	Alexander Kim (Kaz)	Regulation of U production in Kazakhstan	
11:10	Torgoev	Isakbek	Environmental issues and possibilities of remediation of the abandoned U-Zn-Pb mining wastes in the	Stylo	Malgorzata	Biogeochemical controls on U immobilization in the subsurface	Nikolay Todorov (BG)	Regulatory Control and Monitoring for Uranium Production Legacy Sites in Bulgaria	
11:30	Bäckström	Mattias	Uranium leaching from a burning large black shale waste deposit – present conditions and future scenarios	Wagner	Frank	Impact of uranium mill tailings on water resources in Mailuu Suu, Kyrgisistan	Don Metzler (USA)	Applying the Safety Conscious Work Environment at Radioactive Waste Cleanup sites	
11:50	Zhang	Vwei	Remediation of a uranium geological exploration facility	Wang	Weiqing	Rhizofiltration of U by plant root surfaces in a tailing wetland	Sven Altfelder (D)	Assessment and Evaluation of Remediation Activities of Wismut GmbH	
12:10	Banzi	Firmi	Challenging issues in regulating uranium mining in Tanzania	Yuksiv	Yuliia	Neotectonics influence of identified active geological structures on the safety of uranium tailings	Anti Siinmaa (EE)	From remediation of a tailings pond to remediation of a mono-functional city	
12:30	Winde	Frank	Revisiting a south African case study on uranium exposure linked to leukemia – preliminary results						
12:50 - 14:00	Lunch Break								

	Session I: Uranium mining (Lecture Hall WIN-1005)			Session II: Uranium and phosphates (Lecture Hall WIN-2258)			Lecture Hall GEL-0001
	Chair Person:		Christian Wolkersdorfer			Paul Brown	
14:00	Spasic Jokic	Vesna	Health risk assessment from uranium content in the west Morava river basin	Karlsson	Stefan	Impact of humic substances on uranium mobility in soil – a case study from Gessenwiese test field	Michael Paul (D) Current achievements of Wismut's Remediation Activities in the former East German U provinces
14:20	Canbaz ÖZTÜRK Buket		A radiological survey of the Cataldag Granitoid area in the western Anatolia	Mestan	Jan	U-Th-Pb data as a tool for bordering small-scale regions of in-situ monazite mineralization	Jan Trojáček (CZ) Status of environmental remediation activities of DIAMO
14:40	Kreyßig	Elke	Contamination of water bodies affected by post-mining activities in the mirror of the European water framework directive	Nair	Sreejesh	Sorption of U(VI) and As(V) on SiO ₂ , Al ₂ O ₃ , TiO ₂ and FeOOH: a column experiment study	Dmitry Bugay (UA) Remediation in Ukraine
15:00	Akoteyon	Isaiah Sewanu	Characterizing the hydrochemistry of groundwater in the upper coastal plain sand aquifer in parts of Lagos, Nigeria	Papageorgiou	Fani	Characterization of phosphogypsum deposited in Schistos waste site	Philippe Crochon (F) Water management in former U mines
15:20				Schmidt	Gerhard	Rare earth ore refining in Kuantan/Malaysia – the next legacy ahead?	Peter Talviste (EE) Temporal changes in manmade soils materials - influence of geotechnical characteristics
15:40				Shiriaeva	Anna	Uranium sorption onto the granites of Nizhnekansk Massif	Horst Monken-Fernandez Uranium Production in Brazil - Challenges and Perspectives
16:00 - 16:20	Coffee Break						
	Session V: Basic research and modeling (Lecture Hall WIN-1005)			Session II: Uranium and phosphates (Lecture Hall WIN-2258)			Lecture Hall GEL-0001
	Chair Person:		Ewald Schnug			Gert Dudel	
16:20	Lietsch	Corinne	Investigation of phenomena in uranium mine water using hydrogeochemical modeling – a case study	Sporleder	Daniela	REE fractionation and distribution of Fe, Ni and U in the soil-water-biomass-system along the flow path of Gessenbach, eastern Thuringia (Germany)	Fernando Carvalho (Por) The national monitoring programme for legacy uranium areas in Portugal: progress and lessons
16:40	Lagneau	Vincent	3D reactive transport simulation of uranium in situ leaching: forecast and process optimization	Fakhi	Said	Sequential extraction of u and th isotopes: study of their natural distribution in sedimentary rocks	Peeter Talviste (EE) Temporal changes in manmade soils materials - influence of geotechnical characteristics
17:00	Schnug	Ewald	Where has all the uranium gone? Or what feeds Dimona – circumstantial evidence for an illicit fate of uranium from rock phosphate processing	Hoyer	Mandy	Uranium contamination of soil and groundwater by phosphate fertilizer application	Danyl Pérez-Sánchez (E) Development of a modeling approach for radiological risk assessment of U mill tailing for remediation
17:20	Arab	Alireza	Enhanced in situ leaching mining by means of Supercritical CO ₂ - TOUGHREACT Modeling	Tzifas	Ioannis	Uranium distribution and speciation in phosphatized limestones of NW Greece	
17:40	Märten	Horst	Role of (competitive) kinetics in reactive-transport model simulations of uranium ISR	Mohamed Ahmed Abdallah	Samy	Towards a safer environment: disposability of uranium by some clay sediments in Egypt	
18:00	Bonnaud	E	Reactive transport simulation applied on uranium ISR: effect of the density-driven flow	Meraat	Mojtaba	How effect of granite uranium on water resources	
19:00	BBQ						BBQ
Wednesday	September 24th						
	Session IV: Uranium and daughter nuclides & analytics (Lecture Hall WIN-1005)					UMREG	Lecture Hall GEL-0001

		Chair Person: Frank Winde			
8:30	Blake	Diane	Re-engineering antibodies for optimum performance in uranium sensors		O. Voytsekhovich (IAEA) Overview of the CGULS activities
8:50	Blowes	David	PRB for treating Sr-90 plume derived from a nuclear waste site and reactive transport modelling of the system		O. Voytsekhovich (IAEA) ER Strategy for Mailuu Suu - Minkush
9:10	Boujrhah	Fatima Zahra	Radon diffusion in rocks and minerals		Isakbek Torgoev (Kyr) Experience and rehabilitation of U legacy sites in the mountainous regions of Kyrgyzstan
9:30	Brown	Paul	Solubility of Radium and Strontium Sulfate across the Temperature Range of 0 to 300°C		Hansjoerg Eberle (CH) Financing simple and efficient remedial measures: Protection of Karta 1-9 in Chkalovsk
9:50	Coetzee	Henk	Cost effective screening of mine waters using accessible field test kits: experience with a high school project in the Wonderfonteinspruit catchment, South Africa		Hagen Jung (D) Preventing generation of future legacies by operating Uranium Mines - Lessons Learned from Past Remediation
10:10	Dinis	Maria de Lurdes	Dispersion modelling of natural radionuclides U, Th and K released from coal-fired power plants operations		
10:30 - 10:50 Coffee Break					
		Chair Person: David Blows			
10:50	Vidović	Milka	Hydrogeochemical investigation of the influence of natural radionuclides on the environment, NW Bačka		Peter Waggitt (AUS) South Alligator Valley remediation: A 5-year progress report.
11:10	Hurst	Stefanie	Radium in groundwater – a review		Tania Laurencont (AUS) Rehabilitation Planning for the former Rum Jungle Uranium Mine site
11:30	Kassahun	Andrea	Speciation analysis based design of mine water treatment technologies		Keith Tayler (AUS) The closure planning process for Ranger U Mine
11:50	Knolle	Friedhart	Uranium implications around the Brocken – Martin Heinrich Klaproth, Nazi atomic research, Wismut prospection and surface water anomalies		Michal Kroupa (CZ) Experience with ISL methods of uranium mining at the Straz pod Ralskem deposit, Czech Republic.
12:10	Suksi	Juhani	Modelling of u series isotopes disequilibria - presentation of a modelling tool		Horst Maerten (D) Environmental management of uranium ISR mines – development, operation, closure.
12:30	Višňák	Jakub	UV-VIS spectrophotometric and TRIFS speciation study of UO ₂ (2+) - XO ₄ (2-) - H ₂ O (X = S, Se) system compared with theoretical quantum-chemical calculation		
12:50 - 14:00 Lunch Break					
		Chair Person: Juhani Suski		Lecture Hall GEL-0001	

14:00	Marusia Renteria-Villalobos	Distribution of uranium and thorium isotopes in colloidal and dissolved fraction of water from San Marcos dam, Chihuahua, Mexico	Amir Khan (India)	Study of role of vegetation and plants on the remediation of filled up portion of uranium tailings pond in India.
14:20	Nowak Jakub	Radon-222 a potential health risk for thermal spas workers in Poland	Faezeh Fatemi (Iran)	Bioleaching of low grade ore using Iranian <i>Acidithiobacillus ferrooxidans</i> ATCC 23270
14:40	Panasyuk M. I	Soils and ground water's radioactive contamination into the local zone of the "shelter" object and industrial site of the Chernobyl NPP	Marilena Cuhutencu	State of the closing out and remediation activities at the Banat Uranium Mines
15:00	Perez Sanchez Danyl	Investigation into the transport of uranium-series radionuclides in soils and uptake by plants	Jakubick, Waggitt, Metzler	General Discussion
15:20	Singh Parminder	Measurement of indoor radon, thoron and their progeny concentrations	Jakubick, Waggitt, Metzler	Conclusion of UMREG2014; What are the New Challenges?
15:40	Streil Thomas	Development of a biochemical sensor for the determination of uranium in aqueous solutions	Jakubick, Waggitt, Metzler	Conclusion of UMREG2014; What are the New Challenges?
16:00 - 16:20	Coffee Break			
	Chair Person:	Broder Merkel		
16:20	Uralbekov Bolat	Comparison of approaches in Slovenia and Kazakhstan in managing exposure to indoor radon	Peter Waggitt	UMREG General Meeting; AGM of the UMREG members
16:40	Oufni Lhoucine	Study of radon level and its decay products in the environmental air of the southeast area (Morocco): implications to exposure and dose.		
17:00	Wolkersdorfer Christian	Removal of heavy metals by Monoceros Coprolite - the BMU2 method		
Thursday	September 25th			
10:00 - 17:00	Field trip	Workshop: Hydrogeochemical Modeling with PHAST and PhreeqC		

Computers:

For your convenience, there are **2 desktop computers** available in the main Foyer of Winkler Bau. General software such as MS Office are available as well. There is also a **printer** available at the conference desk if you need to print. The conference staff will be able to help you

Internet

WiFi / Wlan is available in all conference buildings and university premises. There are two possible ways to use it. **EUDOROAM** and **GAST**

1- If you or your university are a member of EUDOROAM then simply use your **own login and password**.

2- For **GAST** connection the **password** is: **days2014**