

PROGRAMME OF TALKS – LECTURE HALL WIN-1005

Monday, 15.09.2008		Lecture Hall WIN-1005
Opening Session		
0900-0930	<p>Welcome addresses of host Prof. Dr. Broder Merkel Mayor of the city of Freiberg Bernd-Erwin Schramm, President of Saxon State Mining Authority Prof. Dr. Reinhardt Schmidt, Representative of the International Atomic Energy Agency Dr. Jan Slezak Rector of TU Bergakademie Freiberg Prof. Dr. Michael Schlömann</p>	
Plenary Session		
0930-1000	<p>Uranium ISL Mining Activities at the International Atomic Energy Agency Jan Slezak (International Atomic Energy Agency, Austria)</p>	
1000-1030	<p>Uranium mining legacies remediation and renaissance development: an international overview Peter Waggitt (International Atomic Energy Agency, Austria)</p>	
1030-1100	<p>The Fate of Uranium in Bedrock – Insights from 30 years of Research into the Geological Disposal of Radioactive Waste W. Eberhard Falck (JRC, European Commission, The Netherlands)</p>	
1100-1130	<p>Detection of hexavalent uranium with inline and field-portable immunosensors Diane A. Blake et al. (Tulane University, USA)</p>	
1130-1200	<p>Ground water remediation at the Moab, Utah, USA, former uranium-ore processing site Donald R. Metzler et al. (U.S. Department of Energy Office of Environmental Management, USA)</p>	
1200-1230	<p>Dispersion of uranium in the environment by fertilization Ewald Schnug and Silvia Haneklaus (Federal Research Centre for Cultivated Plants, Germany)</p>	
1230-1400	Lunch	
Session III: Mine closure and remediation processes		
Chair: Stephanie Hurst		
1400-1425	<p>Assessment of rehabilitated uranium mine sites, Australia Bernd Lottermoser and Paul Ashley (James Cook University, Australia)</p>	
1425-1450	<p>Radiological Assessment of the rehabilitated Nabarlek Uranium Mine, Northern Territory, Australia Andreas Bollhöfer et al. (Environmental Research Institute of the Supervising Scientist (<i>eriss</i>), Australia)</p>	
1450-1515	<p>Groundwater-climate relationships, Ranger uranium mine, Australia: 1. Time series statistical analyses Gavin M. Mudd et al. (Monash University, Australia)</p>	
1515-1540	<p>Groundwater-climate relationships, Ranger uranium mine, Australia: 2. Validation of unsaturated flow modelling Gavin M. Mudd et al. (Monash University, Australia)</p>	
1540-1605	<p>Groundwater-climate relationships, Ranger uranium mine, Australia: 3. Predicting climate change impacts Gavin M. Mudd et al. (Monash University, Australia)</p>	
1605-1630	Coffee break	
Session III: Mine closure and remediation processes		
Chair: Bernd Lottermoser		
1630-1655	<p>Remediation effects of the WISMUT project to surface waters in the Elbe watershed: An overview Michael Paul et al. (WISMUT GmbH, Germany)</p>	
1655-1720	<p>Underground in-situ mine water treatment in a flooded uranium mine at the WISMUT Königstein site - motivation, activities and outlook Ulf Jenk, Kerstin Nindel and Udo Zimmermann (WISMUT GmbH, Germany)</p>	
1720-1745	<p>Monitoring and remediation of the legacy sites of uranium mining in Central Asia Alex Jakubick et al. (UMREG, Germany)</p>	
1745-1810	<p>Environmental Impacts from the North Cave Hills Abandoned Uranium Mines, South Dakota James Stone and Larry Stetler (South Dakota School of Mines and Technology, USA)</p>	

1810-1835	Valorification of the natural capital from the former uraniferous mining area situated in the Romanian Carpathians. Study Case: The Natural Park of Gradistea de Munte – Cioclovina Dan Bujor Nica et al. (Research and Development National Institute for Metals and Radioactive Resources, Romania)
2000	Barbecue at the foyer of the Neue Mensa Building, Agricolastraße 10A

PROGRAMME OF TALKS – LECTURE HALL WIN-2258

Monday, 15.09.2008		Lecture Hall WIN-2258
Session IV: Uranium in Groundwater and in bedrock		
Chair: Broder Merkel		
1400-1425	Peat deposits as natural uranium filters? - First results from a case study in a dolomitic gold mining area of South Africa Frank Winde (North West University, South Africa)	
1425-1450	Uranium sorption and desorption behavior on bentonite Samer Bachmaf , Britta Planer-Friedrich and Broder J Merkel (TU Bergakademie Freiberg, Germany)	
1450-1515	Uranium(VI) sorption on montmorillonite and bentonite: Prediction and experiments Cordula Nebelung and V. Brendler (Forschungszentrum Dresden-Rossendorf, Germany)	
1515-1540	Determination of Uranium source term in a Polluted Site: a multitechnique study Michaël Descostes et al. (CEA Saclay DEN-DANS/DPC/SECR, France)	
1540-1605	Peculiarities of radionuclide distribution within rock destruction zones (by the example of the objects at the Semipalatinsk Test Site) Ella Gorbunova (Russian Academy of Sciences, Russia)	
1605-1630	Coffee break	
Session IV: Uranium in Groundwater and in bedrock		
Chair: Broder Merkel		
1630-1655	Flow in a brine-affected aquifer at a uranium mill tailings site near Moab, Utah, USA David Peterson, John Ford and Jim Moran (S.M. Stoller Corporation, USA)	
1655-1720	Characterization of U(VI) behaviour in the Ruprechtov site (CZ) Dušan Vopálka , Václava Havlová and Michal Andrlík (Czech Technical University in Prague, Czech Republic)	
1720-1745	Spectroscopic study of the uranium(IV) complexation by organic model ligands in aqueous solution Katja Schmeide and Gert Bernhard (Forschungszentrum Dresden-Rossendorf, Germany)	
1745-1810	Uranium Speciation - from mineral phases to mineral waters Gerhard Geipel and Gert Bernhard (Forschungszentrum Dresden-Rossendorf, Germany)	
1810-1835	Coordination of U(IV) and U(VI) sulfate hydrate in aqueous solution Christoph Hennig et al. (Forschungszentrum Dresden-Rossendorf, Germany)	
2000	Barbecue at the foyer of the Neue Mensa Building, Agricolastraße 10A	

PROGRAMME OF TALKS – LECTURE HALL WIN-1005

Tuesday, 16.09.2008		Lecture Hall WIN-1005
Session III: Mine closure and remediation processes		
Chair: Don Metzler		
0830-0855	Small scale uranium mine remediation in northern Australia Peter Waggitt and Michael Fawcett (International Atomic Energy Agency, Austria)	
0855-0920	Uranium in anthropogenic Lakes of the New Central German Lake District Wolfgang Czegka et al. (Sächsische Akademie der Wissenschaften zu Leipzig, Germany)	
0920-0945	Closure of Underground Mine of Lincang Uranium Mine Lechang Xu et al. (Beijing Institute of Chemical Engineering and Metallurgy, China)	
0945-1010	The remediation of a uranium mining and milling site in Slovenia Michael Paul et al. (WISMUT GmbH, Germany)	
1010-1035	Feasibility Study on Crust Formation as CO ₂ Sink in Uranium and Lignite Post-Mining Sites Petra Schneider et al. (C&E Consulting und Engineering Chemnitz, Germany)	

1035-1100	Coffee break
Session III: Mine closure and remediation processes	
Chair: Peter Waggitt	
1100-1125	Modelling and Assessment of Radionuclides Differential Transport in Groundwater Maria de Lurdes Dinis and António Fiúza (Geo-Environment and Resources Research Center (CIGAR), Portugal)
1125-1150	Infiltration and Contaminant-Transport Modeling for a Uranium Mill Tailings-Disposal Facility Ryan T. Jakubowski , Douglas S. Oliver, and John J. Mahoney (MWH Americas, Inc., USA)
1150-1215	Use of Na-Ferrate (VI) to prevent acid drainage from uranium mill tailings Horst Monken Fernandes , Debra Reinhart and Mariza Ramalho Franklin (Institute of Radiation Protection and Dosimetry, Brazil)
1215-1240	Chemical Behaviour of Uranium in the Tailings Material of Schneckenstein (Germany) Taoufik Naamoun and Broder Merkel (Faculty of in Sfax, Tunisia)
1240-1305	Impacts of Uranium Mining on Environment of Fergana Valley in Central Asia Isakbek Torgoev , Yuriy Aleshin and Gennadiy Ashirov (Kyrgyzstan National Academy of Sciences, Kyrgys Republic)
1240-1400	Lunch
Session III: Mine closure and remediation processes	
Chair: Mathias Hübschmann	
1400-1425	Impacts of Uranium Mining on Environment of Fergana Valley in Central Asia Isakbek Torgoev , Yuriy Aleshin and Gennadiy Ashirov (Kyrgyzstan National Academy of Sciences, Kyrgys Republic)
1425-1450	Radiological hazards from uranium mining Bruno Charoyron (CRIIRAD (Commission de Recherche et d'Information Indépendantes sur la Radioactivité), France)
1450-1515	Radiological evaluation of elevated uranium concentration in ground and surface waters encountered at uranium ore mining and processing sites Peter Schmidt and Thomas Lindner (Wismut GmbH, Germany)
1515-1540	Changes of radium concentration in discharge waters from coal mines in Poland as a result of mitigation Stanislaw Chałupnik and Małgorzata Wysocka (Central Mining Institute, Poland)
1540-1605	Natural occurring uranium nanoparticles and the implication in bioremediation of surface mine waters Martin Mkandawire and E. Gert Dudel (Dresden University of Technology, Germany)
1605-1630	Coffee break
Session III: Mine closure and remediation processes	
Chair: Arokiasamy J. Francis	
1630-1655	Potential of <i>Brassica juncea</i> and <i>Helianthus annuus</i> in phytoremediation for uranium Beate Huhle , Herman Heilmeier and Broder Merkel (Universität Bayreuth, Germany)
1655-1720	Ecological Solutions of Contaminated Environment Remediation from Uranium Mining Activities in Romania Nicoletta Groza (R&D National Institute for Metals and Radioactive Resources, Romania)
1720-1745	Some approaches to remediation study of the fucoid sandstone in the Straz pod Ralskem site - Northern Bohemia Vaclava Havlova et al. (Nuclear Research Institute Rez plc, Czech Republic)
1900	Poster session at at the foyer of the Clemens-Winkler-Building
2100	Meeting of the SAC-Members (Kartoffelhaus, Berggasse 7 09599 Freiberg/Sachsen)

PROGRAMME OF TALKS – LECTURE HALL WIN-2258

Tuesday, 16.09.2008	Lecture Hall WIN-2255
Session IV: Uranium in Groundwater and in bedrock	
Chair: Ewald Schnug	
0830-0855	Migration of uranium in groundwater in three naturally occurring anomalous areas in South Africa Henk Coetzee et al. (Council for Geoscience, South Africa)
0855-0920	Uranium partitioning during water treatment processes Ashraf E.M. Khater (Atomic Energy Authority in Cairo, Egypt)

0920-0945	Uranium(VI) Sulfate Complexation as a Function of Temperature and Ionic Strength Studied by TRIFS Dušan Vopálka (Czech Technical University in Prague, Czech Republic)
0945-1010	Preliminary study of interaction between tailing and the hydrologic cycle at a uranium mine near Tatanagar, India S.K. Sharma (Geological Research Institute in Dehradun, India)
1010-1035	
1035-1100	Coffee break
Session V: Biogeochemistry of uranium	
Chair: Stoyan Groudev	
1100-1125	Microbial transformations of uranium in wastes and implication on its mobility Arokiasamy J. Francis (Brookhaven National Laboratory, USA)
1125-1150	Uranium biomineralization by uranium mining waste isolates: a multidisciplinary approach study Mohamed L. Merroun , Christoph Hennig and Sonja Selenska-Pobell (Forschungszentrum Dresden-Rossendorf, Germany)
1150-1215	Characterization of the microbial diversity in the abandoned uranium mine Königstein Jana Seifert et al. (TU Bergakademie Freiberg, Germany)
1215-1240	Comparative investigation of the interaction of uranium with lipopolysaccharide and peptidoglycan Astrid Barkleit , Henry Moll and Gert Bernhard (Forschungszentrum Dresden-Rossendorf, Germany)
1240-1400	Lunch
Session V: Biogeochemistry of uranium	
Chair: Gert Bernhard	
1400-1425	Biogeochemistry of Uranium - Speciation, Preconcentration and Recovery Yadvendra Agrawal (Nirma University of Science & Technology; India)
1425-1450	The biogeochemistry of uranium in natural-technogenic provinces of the Issik-Kul Bekmamat M. Djenbaev et al. (Institute of Biology & Pedology of NAS, Kyrgyz Republic)
1450-1515	Radioactivity in soils and horticulture products near uranium mining sites Fernando P. Carvalho and João M. Oliveira (Nuclear and Technological Institute, Portugal)
1515-1540	Mechanisms and capacity of sun driven uranium removal in natural and nature-like constructed wetlands E. Gert Dudel et al. (Dresden University of Technology, Germany)
1540-1605	Environmental implications of Mn(II)-reacted biogenic UO ₂ Harish Veeramani (École Polytechnique Fédérale de Lausanne, Switzerland)
1605-1630	Coffee break
Session V: Biogeochemistry of uranium	
Chair: Bekmamat M. Djenbaev	
1630-1655	Extracellular defence reactions of rape cells caused by uranium exposure Katrin Viehweger and Gerhard Geipel (Dresden University of Technology, Germany)
1655-1720	Microscopic and spectroscopic investigation of U(VI) interaction with monocellular green algae Manja Vogel et al. (Forschungszentrum Dresden-Rossendorf, Germany)
1720-1745	Interactions of <i>Paenibacillus</i> sp. and <i>Sulfolobus acidocaldarius</i> strains with U(VI) Thomas Reitz , Mohamed L. Merroun and Sonja Selenska-Pobell (Forschungszentrum Dresden-Rossendorf, Germany)
1745-1810	Comparison of elimination capacity of uranium from the water pathway between periphytic algae, submerse macrophytes and helophytes (emerse vascular plants) Kerstin Aretz and E. Gert Dudel (Dresden University of Technology, Germany)
1900	Poster session at the foyer of the Clemens-Winkler-Building
2100	Meeting of the SAC-Members (Kartoffelhaus, Berggasse 7 09599 Freiberg/Sachsen)

PROGRAMME OF TALKS – LECTURE HALL GEL-0001

Tuesday, 16.09.2008	
Lecture Hall GEL-0001	
Session I: Uranium Mining	
Chair: Jan Slezak	
0830-0855	Permeable Reactive Barriers for Treatment of a Groundwater at a Uranium Mine: Laboratory Evaluation of Reactive Materials David W. Blowes et al. (University of Waterloo, Canada)
0855-0920	Treatment of acid drainage in a uranium deposit by means of a passive system Stoyan Groudev (University of Mining and Geology "Saint Ivan Rilski", Bulgaria)
0920-0945	Uranium fixation by <i>Cladophora spec.</i> Claudia Dienemann et al. (Dresden University of Technology, Germany)
0945-1010	Utilization of autochthonous SRB in uranium mine site remediation Martin Hoffmann , Andrea Kassahun and Ulf Jenk (Groundwater research institute GmbH Dresden, Germany)
1010-1035	Elemental Iron (Fe ⁰) for Better Drinking Water in Rural Areas of Developing Countries Chigoua Noubactep and P. Woafu (Universität Göttingen, Germany)
1035-1100	Coffee break
Session I: Uranium Mining	
Chair: Henk Coetzee	
1100-1125	Depressurising of Deep Underground Workings at McArthur River Mine Houmao Liu et al. (HCLTasca Denver, Inc., USA)
1125-1150	The Potential of Thorium Deposits Ulrich Schwarz-Schampera (Bundesanstalt für Geowissenschaften und Rohstoffe, Germany)
1150-1215	Mining of Uranium in Kazakhstan Gulzhan Ospanova , Ivan Mazalov and Zhaksylyk Alybayev (Kazakh National Technical University, Kazakhstan)
Session II: Phosphate Mining	
1215-1240	Uranium accumulation in sandy soil in an arid region due to agricultural activities Ashraf E. M. Khater , A.S. Al-Saif and H.A. AL-Sewaidan (Atomic Energy Authority in Cairo, Egypt)
1240-1400	Lunch
Session I: Uranium Mining	
Chair: David Blowes	
1400-1425	Risk Assessment of Uranium in Selected Gold Mining Areas in South Africa Peter Wade and Henk Coetzee (Council for Geoscience, South Africa)
1425-1450	Risk assessment of a landfill for wastes containing naturally occurring radionuclides through infiltration to groundwater Anne Delos et al. (Amphos XXI Consulting S.L., Spain)
1450-1515	Integrated Methodology for the Environmental Risk Assessment of an Abandoned Uranium Mining Site Maria de Lurdes Dinis and António Fiúza (Geo-Environment and Resources Research Center (CIGAR), Portugal)
1515-1540	Modeling the water flow in unsaturated waste rock pile: an important step in the overall closure planning of the first uranium mining site in Brazil Mariza Franklin , Horst Fernandes and Martinus Th. van Genuchten (Institute of Radiation Protection and Dosimetry, Brazil)
1540-1605	Developing a 3D data model for geohazard assessment in a former uraniferous mining site Sorin Mihai and Daniel Scradeanu (National Institute for Metals and Radioactive Resources, Romania)
1900	Poster session at at the foyer of the Clemens-Winkler-Building
2100	Meeting of the SAC-Members (Kartoffelhaus, Berggasse 7 09599 Freiberg/Sachsen)

PROGRAMME OF TALKS – LECTURE HALL WIN-1005

Wednesday, 17.09.2008	
Lecture Hall WIN-1005	
Session VI: Environmental behavior	
Chair: Broder Merkel	
0830-0855	The effect of temperature on the speciation of U(VI) in sulfate solutions Linfeng Rao and Guoxin Tian (Lawrence Berkeley National Laboratory, USA)

0855-0920	Safety functions derived from geochemistry for safety analysis of final disposal of high-level radioactive waste Guido Bracke et al. (Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH, Germany)
0920-0945	Fault-related barriers for uranium transport Jörg Hammer et al. (Bundesanstalt für Geowissenschaften und Rohstoffe, Germany)
0945-1010	Radiochemical methods analysis of U and Th: metrological and geochemical applications Said Fakhi et al. (Faculté des Sciences Ben M'Sik, Morocco)
1010-1035	Towards a more safe environment: Disposability of uranium by some clay sediments in Egypt Samy Mohamed Abd-Allah , O.M. El Hussaini and R.M. Mahdy (Ain Shams University in Cairo, Egypt)
1035-1100	Coffee break
Session VI: Environmental behavior	
Chair: Gert Bernhard	
1100-1125	The Importance of Organic Colloids for the Transport of Uranium and other Decay Chain Elements in a Boreal Stream Network Fredrik Lidman et al. (Umeå University, Sweden)
1125-1150	Impact of uranium mines water treatment on the uranium and radium behaviour Charlotte Cazala et al. (IRSN/DEI/SARG/BRN, France)
1150-1215	Radiologically Relevant Radionuclide Depositions in the Agriculturally Used Parts of the Mulde River Floodplains Rainer Gellermann et al. (Sächsisches Landesamt für Umwelt und Geologie, Germany)
1215-1240	Distribution of Ra-226 downstream a uranium mining site Holger Dienemann , Claudia Dienemann and E. Gert Dudel (Dresden University of Technology, Germany)
1305-1430	Lunch
Session VI: Environmental behavior	
Chair: Christian Ekberg	
1400-1425	Uranium and its decay products in radioactive anomalies of the oxidized brown coals (the western part of the Kansko-Achinsk brown coal basin) Mikhail M. Melgunov , Vsevolod M. Gavshin and Elena V. Lazareva (Institute of Geology and Mineralogy of Russian Academy of Sciences, Russia)
1425-1450	Assessment of radiological impact of mining and processing low grade uranium ores on the environment and monitoring strategies Amir Hasan Khan and Raja Ramanna Fellow (Bhabha Atomic Research Centre, India)
1450-1515	Method of reducing radon levels in buildings Rashid A. Khaydarov , Renat R. Khaydarov and Seung Y. Cho (Institute of Nuclear Physics, Uzbekistan)
Session VII: Modeling	
1515-1540	Assessment of Uranyl Sorption Constants on Ferrihydrite – Comparison of Model Derived Constants and Updates to the Diffuse Layer Model Database John J. Mahoney and Ryan T. Jakubowski (MWH Americas, Inc., USA)
1540-1605	Numerical simulation of groundwater flow and particle tracking around the proposed Uranium mine site, Andhra Pradesh, India Lakshmanan Elango (Anna University, India)
1605-1630	Coffee break
Session VII: Modeling	
Chair: Broder Merkel	
1630-1655	Surface complexation of U(VI) by Fe and Mn (hydr)oxides David M. Sherman , Chris G. Hubbard and Caroline L. Peacock (University of Bristol, United Kingdom)
1655-1720	The use of kinetic modeling as a tool in the understanding of the geochemical processes at a uranium mine site Mariza Franklin and Horst Monken Fernandes (Institute of Radiation Protection and Dosimetry, Brazil)
1720-1745	Study of uranium sorption by bentonite V. M. Kadoshnikov, B. P. Zlobenko and S. P. Bugera (National Academy of Sciences and Ministry for Emergency Situations of Ukraine)
1830-1900	Plenary discussion
1900	End of conference

PROGRAMME OF TALKS – LECTURE HALL GEL-0001

Wednesday, 17.09.2008	
Lecture Hall GEL-0001	
UMREG'08 Meeting: „Uranium Mine Remediation in Times of Revival of Production“	
<i>Opening</i>	
0830-0845	Welcome Address of the host Dr. Mann/Dr. Paul
0845-0900	US DOE Address Cynthia Anderson
0900-0915	Goals of UMREG`08 UMREG Executive Committee
Session I: Environmental impact and control of U mining Chair: Jan Slezak	
0915-0935	IAEA activities in support of uranium mining waste remediation Russell Edge
0935-0955	Baseline assessment at the uranium mining sites in India Anjan Chaki
0955-1015	The New Generation of Uranium In Situ Recovery Facilities Steven Brown
1015-1045	Coffee break
Session II: Remediation of legacy sites in mountainous regions Chair: Peter Waggitt	
1045-1105	The IAEA TC project on assessment and monitoring of the uranium mining and processing sites in Central Asia O. Voitsekhovich
1105-1125	The Mailuu Suu World Bank project C. Kunze
1125-1145	Remediation of the Borst uranium mill tailings site P. Dolenc, B. Lahajnar, I. Gantar, Z. Logar
1145-1300	Lunch (lunch provided at the meeting site)
Session III: Uranium mine remediation experience Chair: Don Metzler	
1300-1320	Post uranium mining: The activities of the Groupe d'Expertise Pluraliste in Limousin, France Yves Marignac
1320-1340	Waste rock management within the Wismut Remediation Programme M. Paul
1340-1400	15 years of tailings pond remediation experience at Wismut and the application of the Best European Practice for remediation of the Eleshnitsa tailings pond in Bulgaria R. Hähne
1400-1420	Post-closure water management practice on the former uranium mining site in Hungary G. Nemeth
1420-1440	Integrated Methodology for the Optimization of Mine Closure R. Kahnt
Session IV: Policy issues Chair: Alex Jakubick	
1440-1500	Can Uranium Mining Ever Be Considered Low Environmental Impact? Research, Case Studies and Policy From an NGO Perspective Gavin Mudd
1500-1520	Stakeholders: their role in uranium mine remediation H. Monken-Fernandez
1520-1535	Human resources issues in uranium mining and remediation P.Waggitt
1535-1550	Past and present uranium mining and processing sites remediation policies in the USA D. Metzler
1550-1610	Uranium resources development - minimising future legacies J. Slezak
<i>Closure</i>	
1610-1625	Conclusions from the UMREG Monograph Alex Jakubick
1625-1645	Establishment of the IAEA Network of Centres of Excellence in Environmental Remediation in cooperation with UMREG J.-M. Potier
1645-1700	Coffee break
1700-1800	Meeting of the Extended UMREG Committee with IAEA Joint dinner of invited UMREG participants_(Schloss Freudenstein, Schlossplatz 4, 09599 Freiberg)

POSTER SESSION

Posters will be presented at the Poster session on Tuesday 16th September, 2008 at 7.00 pm at the foyer of the Clement-Winkler-Buildung and numbered according to the sequence of their registration and conference topics.

Session I: Uranium Mining

- P1.1 Prediction and a new Method of Exploitation of Gold Deposits with Uranium in the Variscian Molass Conglomerate Basins of Germany.
Elkhan A. Mamedov (Baku State University, Azerbaijan)
- P1.2 The Prediction of geodynamic conditions of mining of Elkon uranium field (Eastern Siberia, Russia).
Tatarinov V.N et al. (VNIPI Promtechnology, Russia)
- P1.3 Radiological investigation and ecological risk of south coastal section of Issyk-Kul Lake
Kulenbekov Zheenbek (Kyrgyz Russian Slavic University, Kyrgyz Republic)
- P1.4 Modelling in-situ leaching process of uranium
Gennady Glotov, Alexandr Skripnik and Alexandr Hvan (Navoi Mining and Metallurgical Combine, Uzbekistan)
- P1.5 Could calixarenes be a viable solution for radioactive decontamination of mine waters from Romania?
Ioana-Carmen Popescu et al. (ICPMRR, Romania)
- P1.6 Experience gained from the experimental permeable reactive barrier installed on the former uranium mining site (Hungary).
Mihaly Csövári et al. (Mecsekerc Rt, Hungary)
- P1.7 GIS supported pre-assessment of radioactively contaminated areas in the agriculturally used parts of the Mulde River floodplains
Stefan Ritzel et al. (Sächsische Landesamt für Umwelt und Geologie, Germany)
- P1.8 **Chicgoua Noubactep** and P. Woafo (Universität Göttingen, Germany)
Elemental Iron (Fe⁰) for Better Drinking Water in Rural Areas of Developing Countries
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Session II: Phosphate Mining

- P2.1 Uranium and heavy metals in phosphate fertilizers: concentrations and environmental consequences.
Ashraf E.M. Khater (Atomic Energy Authority, Egypt)
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Session III: Mine closure and remediation processes

- P3.1 The Rum Jungle U-Cu Project : A Critical Evaluation of Environmental Monitoring and Rehabilitation Success.
Gavin M. Mudd et al. (Monash University, Australia)
- P3.2 Uranium uptake and accumulation in *Phragmites australis* Trin. ex Steud. depending on phosphorus availability, litter contamination and ecotype
Carsten Brackhage et al. (TU Dresden, Germany)
- P3.3 Continuous supply of citric acid and ammonium traces to uranium mine dump soil: A path to acceptable phytoextraction techniques?
Gerhard Gramss et al. (Friedrich-Schiller-University, Germany)
- P3.4 Radionuclides in underground waters at the former uranium and radium mining region of Sabugal, Portugal.
Fernando P. Carvalho et al. (Nuclear and Technological Institute, Portugal)
- P3.5 State supervision to the monitoring program of the Wismut GmbH in the free state of Saxony
Thomas Heinrich et al. (Staatliche Umweltbetriebsgesellschaft, Germany):
- P3.6 From remediation to long-term monitoring - The concept of key monitoring points at WISMUT
Elke Kreyßig, Uwe Sporbert and Sven Eulenberger (Wismut GmbH)
- P3.7 Radiological risks from uranium tailing.
Azamat Tynybekov et al. (Kyrgyz Russian Slavonic University)
- P3.8 Treatment of historical uranium contaminated radioactive waste at necsa for disposal
J.J. Badenhorst and W Meyer (Nuclear Waste Research, South African Nuclear Energy Corporation, South Africa)
- P3.9 Some approaches to remediation study of the fucoid sandstone in the Stráž pod Ralskem site – Northern Bohemia.
Vaclava Havlov et al. (Nuclear Research Institute Řež plc, Czech Republic):
- P3.10 Infiltration and Contaminant-Transport Modeling for a Uranium Mill Tailings-Disposal Facility
Ryan T. Jakubowski, Douglas S. Oliver, and John J. Mahoney (MWH Americas, Inc., USA)
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Session IV: Uranium in Groundwater and in bedrock

- P4.1 Complexation of Uranium(VI) by Sulfur and Nitrogen Containing Model Ligands in Aqueous Solution.
Claudia Joseph et al. (Forschungszentrum Dresden-Rossendorf, Germany)
- P4.2 Characterizing As, Cu and U Solubilization Under Natural Near Oxidic Conditions
Chicgoua Noubactep et al. (Universität Göttingen, Germany)
- P4.3 Which factors influence the immobilization of uranium in soils and sediments?
Angelika Schöner et al. (Martin-Luther-Universität Halle-Wittenberg, Germany)
- P4.4 Problems of the hydrogeological monitoring of objects of the Prydneprovsk Chemical Plant (Dneprodzerzhynsk, Ukraine).
Oleksandr Skalsky et al. (National Academy of Sciences of Ukraine)
- P4.5 Speciation of Uranium in a Polluted Site: a TRLFS study.
Michaël Descostes et al. (CEA Saclay DEN-DANS/DPC/SECR, France)
- P4.6 Uranium Minerals of Bukulja Mountain controls on Storage Reservoir Water.
Zoran Nikic et al. (University of Belgrade, Serbia)
- P4.7 The distribution of uranium in groundwater in the Bushmanland and Namaqualand areas, Northern Cape Province, South Africa
Nicolene van Wyk et al. (Council for Geoscience, South Africa)
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