

International Workshop "Current Developments in Remediation of Contaminated Lands" Scientific Programme

Wednesday, 26 October: Arrival, accommodation, reception

20:00	Welcome drink – Sybilla Restaurant
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Thursday, 27 October

Time	Session	Place	Activity	
8:30 - 9:00		Czartoryskis Palace - Knight's Hall	Opening	
9:00 - 9:30	PS		Assisted phytostabilisation and mechanisms to reduce trace element bioavailability in contaminated soils Michel Mench , UMR BIOGECO INRA , University of Bordeaux, Talence, France	
9:30 - 10:00			Critical success factors for revegetation of heavily polluted sites. A cost-benefit analysis tool Jan Japenga, Paul Romkens, Luc Bonten , ALTERRA Green World Research, Wageningen University and Research, Wageningen, The Netherlands	
10:00 - 10:20			Environmental impact and potential remediation of contaminated land affected by Zn-Pb mining Valérie Cappuyns, Rudy Swennen, Patrick Ganne, Marjan Niclaes Katholieke Universiteit Leuven, Fysico-chemische Geologie, Heverlee, Belgium	
10:20 - 10:40			Remediation of extensively contaminated agricultural soils in the vicinity of a former Pb/Zn smelter in Austria - in situ treatments on grassland Klaus Platzer, W. Friesl, J. Friedl, J. Riesing, O. Horak, M. H. Gerzabek , Department of Environmental Research, ARC Seibersdorf Research, Seibersdorf, Austria	
10:40 - 11:00				Coffee break
11:00 - 11:20	PS		Remediation of heavy metal contaminated forests in Finland using recycled organic matter and native woody plants Helja-Sisko Helmisaari, J. Derome, M. Kukkola, T. Nieminen, M. Salemaa , Finnish Forest Research Institute, Vantaa Research Centre, Vantaa, Finland	
11:20 - 11:50			Quantifying efficacy of in situ remediation treatments: recent advances and remaining obstacles Nicholas T. Basta , School of Environment and Natural Resources, The Ohio State University, Columbus, Ohio 4, USA	
11:50 - 12:20	MA		Metals and metalloids in soils and plants of woodlands regenerated on contaminated soils in N.W England: sustainable natural remediation? Paula Madejon, Nicholas W Lepp , School of Biological and Earth Sciences, Liverpool John Moores University, Liverpool, UK	
12:20 - 12:40			Sunflower reduces Cd transfer to food chain in salt-affected soils of Qom, Iran Amir - Hossein Khoshgoftar, M.A. Hajabbasi , Department of Soil Sciences, College of Agriculture, University of Technology, Isfahan, Iran	
12:40 - 14:00				Lunch – Sybilla Restaurant
14:00 - 15:00				Poster Session
15:00 - 15:20	MA		Field tested soil management practices to improve phytoremediation of metal cations and metal anions Satish Gupta , Agroscope FAL Reckenholz, Swiss Federal Research Station for Agroecology and Agriculture, Zuerich , Switzerland	
15:20 - 15:40			Soil microbial activity on the calamine spoils in Olkusz –Bukowno region (S.Poland) Maria Niklinska, Elżbieta Bonior, Grażyna Szarek Łukaszewska , Institute of Environmental Sciences, Jagiellonian University, Kraków, Poland	
15:40 - 16:00			Early detection of heavy metals pollution areas Rafael Bellver, J. A. Fernandez, M. J. Valderrama, J. M. García-Pelayo, J. Aguilar, E. Barahona, C. F. Dorransoro , U. A. CSIC-Univ. Granada, Spain	
16:00 - 16:20			Use of mycorrhizal fungi in metal rich wastes restoration Katarzyna Turnau, P. Ryszka, A. Jurkiewicz, E. Orłowska, S. Gawronski , Jagiellonian University, Kraków, Poland	
16:20 - 16:50				

16:50 – 17:10	MA	Czartoryskis Palace - Knight's Hall	Bioavailability stripping of Pb, Zn and Cd contaminated soil using UV/ozone treatment of EDTA extractant in closed loop Domen Leštan, Neža Finžgar , Agronomy Department, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia
17:10 - 17:40	R		Remediation of radionuclide contaminated sites using phytotechnologies Petr Soudek, Tomáš Vaněk , Department of Plant Tissue Cultures, Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, Praha, Czech Republic
17:40 – 18:00			Biogeochemical assessment of phytoremediation perspective within area contaminated with artificial radionuclides Viktor Dolin , Institute for Environmental Geochemistry, Kyiv, Ukraine
19:00			Dinner – Sybilla Restaurant

Friday, 28 October

9:00 - 9:30	CS	Czartoryskis Palace - Knight's Hall	Revegetation and site assessment of zinc and lead smelter waste in Silesia Region of Poland Tomasz Stuczyński, Grzegorz Siebielec , Institute of Soil Science and Plant Cultivation – State Research Institute, Department of Soil Science Erosion and Land Protection, Puławy, Poland
9:30 - 9:50			Contamination by a pyrite mine spill in Spain: effect on soils and remediation measurements Francisco Martín, M. Simón, I. García, J. Aguilar, C. Dorronsoro, J. Fernández, E. Fernández , Soil Science Department, Faculty of Science, University of Granada, Spain
9:50 - 10:10			Reclamation of disturbed land from mining activities using municipal sewage sludge I. Influence on biomass production and soil properties Christos D. Tsadilas, G. Mantakas, V. Tantos, G. Brofas, and S. Papadopoulos , National Agricultural Research Foundation, Institute of Soil Classification and Mapping, Greece
10:10 - 10:30			Alternative municipal landfill site closure with leachate management using land application Maja Zupanič-Justin, Danijel Vrhovšek, Tjaša G. Bulc, Marija Zupančič, Peter Bukovec, Alexis Zrimec, Maja Berden Zrimec, Luka Drinovec , Limnos, Company for applied ecology, Slovenia
10:30 - 11:00			Coffee break
11:00 - 11:30	PE		Phytoextraction of soil Cd, Ni and Zn using hyperaccumulator plants to alleviate risks of metal contaminated soils requiring remediation Rufus L. Chaney, J. Scott Angle, Autumn S. Wang, Marla S. McIntosh, Leigh Broadhurst, Roger D. Reeves , US Department of Agriculture, Agricultural Research Service, Animal Manure and By-Products Lab, Beltsville, MD, USA
11:30 - 12:00			Rhizosphere processes involved in phytoremediation of contaminated soils Markus Puschenreiter, Walter W. Wenzel , University of Natural Resources and Applied Life Sciences, Vienna – BOKU, Department of Forest and Soil Sciences, Rhizosphere Ecology & Biogeochemistry Group, Vienna, Austria
12:00 - 12:20			Perspectives for use of induced phytoextraction for reclamation of soils polluted by the emissions from copper smelters – in the light of preliminary pot experiment Anna Karczewska, Cezary Kabała, Dawid Pańczuk , Institute of Soil Science and Agricultural Environment Protection, Agricultural University of Wrocław, Wrocław, Poland
12:20 – 12:40			How can we improve phytoremediation efficiency using short-term plant metal variations? Irina Shtangeeva, E.Rudneva, X. Lin, A. Tuerler , St. Petersburg University, St. Petersburg, Russia
12:40 – 13:10			Costs related to soil cleaning of metals using phytoextraction: a trial on commercial scale Rafał Kucharski, Aleksandra Sas-Nowosielska, J. Michael Kuperberg , Institute for Ecology of Industrial Areas, Katowice, Poland
13:10 – 15:00			Lunch – Sybilla Restaurant
15:00 – 15:30	OC	Theory and application of landfarming to remediate PAHs and mineral oil contaminated soils and sediments Joop Harmsen , Alterra Wageningen University and Research Centre, Wageningen, The Netherlands	

15:30 -15:50		Knight's Hall	Effect of surfactants and electrokinetics on the bioremediation of soils polluted by polycyclic aromatic hydrocarbons J.L. Niqui-Arroyo and, Jose – Julio Ortega-Calvo , Instituto de Recursos Naturales y Agrobiología, CSIC, Sevilla, Spain
15:50 – 16:10			Enhanced natural attenuation for risk reduction at oil hydrocarbons contaminated land Grzegorz Malina, I. Zawierucha , Institute of Environmental Engineering, Częstochowa University of Technology, Częstochowa, Poland
16:10 – 16:40			Coffee break
16:40 – 17:10	OC	Czartoryskis Palace - Knight's Hall	Phytostimulation versus phytodegradation of pesticides 1) the case of atrazine, Jean-Paul Schwitzguébel, Laure Stalder, Sylvie Marcacci , Laboratory for Environmental Biotechnology (LBE), Swiss Federal Institute of Technology, Lausanne, Switzerland 2) the case of lindane, Joana Meyer, Jean-Paul Schwitzguébel and Jan-Roelof van der Meer , Laboratory for Environmental Biotechnology (LBE), Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
17:10 – 17:30			Use of carbon based adsorbents for bioremediation of highly contaminated soils Galina K. Vasilyeva, Strijakova E.R. , Institute of Physico-chemical and Biological Problems in Soil Science RAS, Pushchino, Russia
19:30			Gala Dinner – Czartoryskis Palace

Saturday, 29 October

9:00 – 16:00	A study tour through Lublin region
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Sessions:

- PS** Phytostabilization of metal contaminated sites
- MA** Modern approaches to site evaluation and treatment
- R** Remediation of soils contaminated with radionuclides
- CS** Application of remediation techniques to different environments - case studies
- PE** Phytoextraction of metals from contaminated soils
- OC** Remediation of sites contaminated with organic compounds