

PROVISIONAL PROGRAM			
Wednesday 7 September 2011			
Time	Theme	Speaker	Presentation Title
8.30 - 9.00		Welcome and official opening	
9.00 - 9.40	Role of bioavailability in new fields	Steve McGrath, Rothamsted Research, UK	Nanoparticle bioavailability: toxicity in terrestrial environments
9.40 - 10.20		Hirofumi Tsukada, Department of Radioecology, Institute for Environmental Sciences, Japan	Aging of phytoavailable 137cs in soil
10.20 - 10.50	Morning Tea		
10.50 - 11.30	Role of bioavailability in new fields	Erik Smolders, Katholieke Universiteit Leuven, Belgium	Plant availability of trace metals in soil: concepts, data and models
11.30 - 11.55		Luchun Duan, UniSA, CERAR	Sorption of phenanthrene by 15 natural uncontaminated soils
11.55 - 12.20		Christian Schlechtriem, Fraunhofer Institute for Molecular Biology and Applied Ecology	What can we learn from aquatic bioavailability approaches?
12.20 - 1.20	Lunch		
1.20 - 2.00	Role of bioavailability in site management	Joop Harmsen, Wageningen-UR, the Netherlands	Bioavailability as a tool in site management
2.00 - 2.25		Joh Weber, UniSA, CERAR	Surfactant enhanced bioavailability and biodegradation of petroleum hydrocarbons
2.25 - 2.50		Nasser Kahn, UniSA, CERAR	Effect of biochar and other organic and inorganic amendments on the growth of turf roots on the bassendean/jandacot soil system of the coastal plain of Western Australia
2.50 - 3.15		Girish Choppala, UniSA, CERAR	Black carbon and biochar reduce the bioavailability of chromate in soils
3.15 - 3.45	Afternoon Tea		
3.45 - 4.25	Role of bioavailability in site management	Graeme Paton, University of Aberdeen	TBC
4.25 - 4.50		Mona Wells, Helmholtz Centre for Environmental Research; CPG New Zealand	The effect of natural organic matter on trace metal bioavailability predicted by the biotic Ligand model
4.50 - 5.15		Nimisha Tripathi, Central Institute of Mining and Fuel Research	Removal of heavy metals through aromatic grass cropping in contaminated coalmine wasteland of India
5.15 - 6.00	Drinks and Poster Session		
Thursday 8 September 2011			
8.30 - 10.10	Discussion session	Breakout Discussion Session	Are we ready for implementation? Do we know enough, or are there still gaps?
10.10 - 10.40	Morning Tea		
10.40 - 11.20	Bioavailability assessment (Organics)	Kirk Semple, Lancaster University, UK	TBC
11.20 - 11.45		Bei Wen, Chinese Academy of Sciences	Uptake of perfluorooctane sulfonate by maize (Zea Mays L. CV.TY2): A hydroponic study
11.45 - 12.10		Kirstin Derz, Fraunhofer Institute for Molecular Biology and Applied Ecology	Validation and feasibility of three-phase extraction procedures with Tenax and HPCD
12.10 - 1.10	Lunch		
1.10 - 1.50	Bioavailability assessment (Organics)	Jose-Julio Ortega-Calvo, Inst. Recursos Naturales y Agrobiologia de Sevilla, CSIC	Bioavailability assessment in biodegradation of hydrophobic organic chemicals: Experimental models and 14c-labelled tracers
1.50 - 2.15		Kirstin Hund-Rinke, Fraunhofer Institute for Molecular Biology and Applied Ecology	Suitability of extraction methods to assess the bioavailability of mineral hydrocarbons for soil organisms
2.15 - 2.40		Lei Luo, Research Centre for Eco-Environmental Sciences, Chinese Academy of Sciences	Aging of PAHs in soils and its correlation with soil properties
2.40 - 3.10	Afternoon Tea		
3.10 - 5.00	Discussion session	Breakout Discussion Session	How do we organise a harmonised approach?
5.00 - 6.00	Drinks and Poster Session		

Friday 9 September 2011			
Time	Theme	Speaker	Presentation Title
8.30 - 9.10	Bioavailability assessment (inorganics)	Nicholas Basta, Ohio State University, USA	In vitro gastrointestinal bioaccessibility methods to assess metal(loid) bioavailability and risk from soil ingestion
9.10 - 9.35		Albert Juhasz, UniSA, CERAR	Predicting lead relative bioavailability in peri-urban contaminated soils using in vitro bioaccessibility assays
9.35 - 10.00		Jack Ng, University of Queensland	Effect of co-administration of lead and arsenic on the bioavailability of arsenic and its pharmacokinetics
10.00 - 10.30	Morning Tea		
10.30 - 11.10	Bioavailability assessment (inorganics)	Rufus Chaney, US Department of Agriculture	Bioaccessible soil Pb extraction results should be correlated with bioavailability of soil-Pb in both untreated and phosphate-remediated soils
11.10 - 11.35		Susan Wilson, University of New England	Effects of mine site rehabilitation strategies on antimony and arsenic plant availability
11.35 - 12.00		Peter Kopittke, University of Queensland	Calculated metal activity at the plasma membrane surface of root cells improves environmental impact assessment
12.00 - 1.00	Lunch		
1.00 - 1.40	Incorporating bioavailability in risk assessment and decision making	Ellen Brand, National Institute for Public Health and the Environment (RIVM), The Netherlands	Implementation of bioavailability of organic compounds in ecological risk assessment: Experiences from the Netherlands
1.40 - 2.20		Werner Kördel, Fraunhofer Institute for Molecular Biology and Applied Ecology, Germany	Incorporating availability/bioavailability in risk assessment and decision making of polluted sites in Germany
2.20 - 2.45		Euan Smith, UniSA, CERAR	In vivo assessments of lead bioavailability in contaminated soil using pregnant and non-pregnant mice
2.45 - 3.15	Afternoon Tea		
3.15 - 3.55	Incorporating bioavailability in risk assessment and decision making	Paul Nathanail, University of Nottingham	Invoking bioaccessibility for assessing human health risks from soil benzo(a)pyrene: A case study
3.55 - 4.45	A summary of discussions: The Adelaide Statements on Bioavailability		
4.45 - 5.00	Closing Ceremony		
5.00 - 5.30	Drinks		
5.30 - 6.30	Free Time until Dinner		
6.30 - 7.00	Bus Departs Hilton to Dinner		
7.00 - 11.00	Gala Dinner		

## Poster Presentations

Session 1: Wednesday 7 September 2011	Peter Sanderson, UniSA, CERAR	Reduction in bioavailability of lead in shooting range soils by in-situ chemical stabilisation
	Bo Xiao, Huazhong University of Science and Technology, PR China	Heavy metal in acidified sewage sludge amended by red mud
	Euan Smith, UniSA, CERAR	In vivo, in vitro and XANES spectroscopy assessments of lead bioavailability in contaminated soils
	Mohammad Mahmudur Rahman, UniSA, CERAR	Extraction of arsenic species in soils using microwave assisted extraction detected by IC-ICP-MS
	Albert Juhasz, UniSA, CERAR	Determination of cadmium relative bioavailability in contaminated soils and its prediction using in vitro methodologies
	Albert Juhasz, UniSA, CERAR	Impact of soil particle size on lead bioaccessibility in peri-urban contaminated soils
	Albert Juhasz, UniSA, CERAR	Assessing the impact of gastric phase PH on the arsenic relative bioavailability predictive capabilities of in vitro assays
Session 2: Thursday 8 September 2011	Anitha Kunhikrishnan, UniSA, CERAR	Effect of recycled water sources on the bioavailability of copper to earthworms and microorganisms
	Michelle Foster, Gilbert & Sutherland Pty Ltd	Arsenic accumulation in radish grown in a contaminated ferrosol
	Euan Smith, UniSA, CERAR	Bioavailability and bioaccessibility assessments of DDT contaminated soil
	Honglin Huang, Research Centre for Eco-Environmental Sciences, Chinese Academy of Sciences	Plant uptake and dissipation of PBDEs in the soils of electronic waste recycling sites
	Hui Ming, UniSA, CERAR	Competitive sorption modelling between cadmium and zinc in soils using Langmuir function
Albert Juhasz, UniSA, CERAR	Predicting arsenic relative bioavailability values in contaminated soils using meta analysis and relative bioavailability-bioaccessibility regression models	