



13-18 July 2009
Chihuahua, Chih., Mexico

General Information

Venue

El Soberano Hotel, Chihuahua, Chih.

Registration

The registration desk is located in the Lobby of the Soberano Hotel and will be open from 16:00 to 18:00 on Monday 13 July and from 9:00 to 18:00 on Tuesday 14. It will remain open throughout the conference.

Speaker Support Center

The Speaker Support Center is located in the Lobby of the Soberano Hotel. The presentation file should be pre-loaded in the conference computer during your registration.

Oral Presentation

Plenary and keynote speakers will be given one hour in total including 15 minutes for questions and discussions.

Oral presentation will be 20 minutes in total including 5 minutes for questions and discussions.

(Please consider using Power Point for your presentations)

Poster Presentation

A display area will be provided. The poster must have the following dimensions: 120 cm high by 90 cm wide. The poster can be mounted with adhesive bands, which will be provided at the poster session room.

Social Program

Monday , July 13	Tuesday , July 14	Wendesday, July 15	Thursday July 16
19:30 h.	20:00 h	19:30 h	18:00 h
Welcome & Ice Breaking reception	Light &Sound	Gala Dinner	Closing Ceremony
Quinta Gameros	Cathedral of Chihuahua	Government Palace	El Soberano Hotel

Technical Program

Date	Event	Place
Monday 13 July 8:30 – 18:00 h	International Seminar Remediation of contaminated sites	CIMAV
Tuesday 14 to Thursday 16 9:00 – 13:00 h.	Environmental Education Workshop Children and youth (7 -18 Years)	Colegio Palmore
Friday 17 9:00 – 13:00 h	Technical Visit to Avalos Smelting Site (group of 50 participants)	Avalos
Saturday 18 Sunday 19 9:00 – 16:00 h	Technical Visit to Naica Mining site, (Crystals Cave) (group of 50 participants)	Naica Peñoles

SPECIAL SYMPOSIA

Symposium 1:

Mercury: environment and health

Chair: Pablo Higuera (Spain), Rocio Millan (Spain)

Symposium 2:

Transport/dynamics of trace elements in the root zone.

Chair: Rainer Schulin (Switzerland), Magdi Selim (USA)

Symposium 3:

Fate and transport of metals in contaminated sediments - new approaches in remediation

Chair: Danny D. Reible (USA), Domy Adriano (USA)

Symposium 4:

Bioavailability in the plant-soil system (rhizosphere)

Chair: Walter Wenzel (Austria) Markus Puschenreiter, Pavel Tlustos

Symposium 5:

Trace elements in plant nutrition

Chair: Enzo Lombi (Australia), Renato de Mello Prado (Brazil), Ronaldo Severiano Berton (Brazil)

Symposium 6:

Arsenic in the environment

Chair: Steve McGrath (U.K), Maria Armienta (Mexico), Martha Litter (Argentina), Fangjie Zhao (UK)

Symposium 7:

Advanced analytical techniques in metal & metalloid research

Chair: Jorge Gardea T. (USA), J. R. Peralta-Videa (USA), F. Roman (Puerto Rico)

Symposium 8:

Sustainable management of metal & metalloid polluted, marginal soils

Chair: Alan Baker (Australia), Rosanna Ginocchio (Chile). Michel Mench (France), Jaco Vangronsveld (Belgium), Daniel van der Lelie (USA)

TECHNICAL SESSIONS

Technical Session 1:

Phytoremediation of metals/metalloids: uptake, transport and transformation

Technical Session 2:

Contamination by trace elements

Air Pollution by metals and Metalloids

Soil

Water

Technical Session 3:

Advances in the use of wetlands and water treatment

Technical Session 4:

Advances in remediation technologies for trace elements contaminated sites

Technical Session 5:

Environmental Sustainability

Technical Session 6:

Arsenic and fluoride, water contamination and remediation processes

Technical Session 7:

New Analytical techniques to study the fate of trace elements in the environment

Technical Session 8:

Metals Environmental Research Associations – MERA

Technical Session 9:

Biogeochemical cycles of trace elements in serpentine environments

Program Timetable

Morning, Tuesday 14 July 2009

9:00-10:00	Opening Ceremony			
10:00-11:00	Plenary Speaker: Esther Orozco Biological sagacity of virus, bacteria and protozoa: Threat and challenge to human intelligence: The AH1N1 virus in Mexico 2009			
11:00-11:20	Coffe break & Posters Presentations			
	Room 1	Room 2	Room 3	Room 4
	Symposium 1	Symposium 5	Technical Session 2	Technical Session 1
	Chairs: Pablo Higuera and Rocio Millán	Chair: Enzo Lombi	Chairs: Giancarlo Renella , Tatiana Zotina, Maria E. Montero	Chairs: Rufus Chaney, Nabanita Dasgupta, Paula Madejon, Alicia Melgoza
11:20-11:40	Pablo Higuera and Rocio Millán	Cynthia Grant Effects of cropping sequence, phosphorus fertilization and tillage system on trace element concentration of durum wheat and soybean	Maria Josefa Santos Yabe Modelling competitive metal sorption in an organic soil applying Taylor-Series expansion	Michel Mench Phenotypic traits of metalicolous and non-metallicolous <i>Agrostis capillaris</i> exposed to Cu
11:40-12:00	Myriam Moreno Accumulation of Arsenic and Mercury in Mojarra, Catfish and Carp Fish Species From Three Water Reservoirs in Chihuahua State	Henner Pascale Internal phosphate fluxes are modulated by uranium contamination in <i>Arabidopsis thaliana</i> - a defensive mechanism in plants?	Christina Siebe Spatial and temporal variability of heavy metals in soils and crops irrigated with wastewater in Central Mexico	Muhammad Ehsan Zinc and cadmium uptake by <i>Lupinus uncinatus</i> S. grown in nutrient solution
12:00-12:20	Kathryn Conko Exposure potential of As and Hg to residents of Gorlovka, Ukraine	Matthieu Bravin Is copper uptake kinetic the rate-limiting process of copper bioavailability to durum wheat in contaminated soils?	Giancarlo Renella Greenhouse gas emission from Cu-contaminated soils subjected to phytoremediation	Guadalupe de la Rosa Phytomanagement of mine tailings in Guanajuato, México
12:20-12:40	Rocio Millán Gomez Influence of the nitrogen nutritional status in the stress responses to mercury in alfalfa (<i>Medicago sativa</i>)	Paul Williams Characterizing selenium concentrations and partitioning in rice: Variation within China and the global perspective	Evelina Brannvall Spatial variability of topsoil contamination by trace elements on the territories of kindergartens in Vilnius, Lithuania	Nabanita Dasgupta Schubert The phytoextraction of copper by <i>Aldama dentata</i> : Plant biometrics and metal stress
12:40-13:00	Ana Paulina Avila Forcada Mercury pollution from mining waste disposal sites in Zacatecas	Majeti Prasad Acceleration of oxidative stress in Cd-treated sorghum seedlings exposed to phosphorus	Florian Wittstock Estimation of Ca and Zn uptake in barley using soil characteristics and differential Kd values	Paula Madejón Amendments to enhance phytoremediation: Single or repetitive applications in time?
13:00-14:00	Lunch			
14:00-14:20	Posters Presentations			

Afternoon, Tuesday 14 July 2009

	Room 1	Room 2	Room 3	Room 4
	Symposium 1	Symposium 5	Technical Session 2	Technical Session 1
	Chairs: Pablo Higueras and Rocío Millán	Chair: Enzo Lombi	Chairs: Giancarlo Renella, Tatiana Zotina, Maria E. Montero	Chairs: Rufus Chaney, Nabanita Dasgupta, Paula Madejon, Alicia Melgoza
14:20-14:40	Pablo Higueras Mercury presence in the atmosphere of a town devoted to gold production: El Callao (Venezuela)	Maribel Ramírez Martínez Influence of lanthanum on the length of stems in <i>Tulipa gesneriana</i>	Maria E. Montero Radionuclides present in surface water at the San Marcos Range, Chihuahua, Mexico	Pavel Tlustos Remediation ability of trees and hyperaccumulators for heavy metals at pot and field growing conditions
14:40-15:00	Pablo Higueras Gaseous mercury and its species in the surroundings of a decommissioned mercury mine	Miroslav Puncochar Possibilities of contaminated flax utilization for energetic purposes	Tatiana Zotina Compartmentalization of stable and radioactive isotopes of metals in the biomass of macrophytes of the Yenisei River	Miriam Hernández Zamora Capability of <i>asphodelus fistulosus L.</i> for accumulation of lead from mine tailings
15:00-15:20	Gilberto Hernández Silva Total mercury content in pre-hispanic skeletons, present mining workers and different land use at south of Sierra Gorda, Queretaro, Mexico	Enzo Lombi Arsenic and nutrients in rice grains	Konstantin Choumilin Authigenic uranium in the sediments in the La Paz Bay and La Paz Basin, South-western Gulf of California	Julie Katrine Jensen The potential of willow for remediation of heavy metal polluted calcareous urban soils
15:20-15:40	Tania Terán Mita Heavy metal pollution by mining activities in Rayo Rojo Mining District Apolobamba (Bolivia)	Estevao Vicari Mellis Sugar-cane response to micronutrients	Evgueni Shumilin Lanthanides in the some organisms from two hydrothermal fields of the Northeast Pacific Ocean: Guaymas Basin (Gulf of California) and 9°50'N on the East Pacific Rise	Asmaveth Solís Ibarra Evaluation of <i>Acacia farnesiana</i> and <i>Asphodelus fistulosus</i> capability for their potential use in phytoremediation of Cd polluted soil
15:40-16:00	Summary and Remarks: Pablo Higueras and Rocío Millán	Adalberto Benavides Growth, minerals and heavy metals absorption in <i>Lilium sp.</i>	Jean Philippe Bedell Evaluation of the desorption predictability measures of Zn, Cu and Cd for rye grass in several sediments	Rufus Chaney Phytoextraction and phytomining of Ni using hyperaccumulator species
16:00-16:20	Coffe break & Posters Presentations			

Afternoon Tuesday 14 July 2009

	Room 1	Room 2	Room 3	Room 4
	Symposium 4	Technical Session 3	Technical Session 2	Technical Session 1
	Chair: Walter Wenzel	Chairs: Alan Baker, Alejandra Martín and Ma. Eugenia García	Chairs: Giancarlo Renella, Tatiana Zotina, Maria E. Montero	Chairs: Rufus Chaney, Nabanita Dasgupta, Paula Madejon, Alicia Melgoza
16:20-16:40	Matthieu Bravin Root-mediated alteration of copper lability in wheat rhizosphere	Vianey Ruiz Lopez Removal of Cd and Zn in biological systems that simulate a constructed wetland	Ali Reza Astaraei Soil availability of Cu and Zn from different manures to fenugreek	Akira Takeda Aging effect on caesium phytoavailability in an Allophanic Andisol
16:40-17:00	Solvita Ore Assessment and modelling of copper toxicity in soil-less culture using a bioluminescent <i>nitrosomonas europaea</i> strain	Maria Eugenia García A comparative study of phytofiltration and bioremediation for metal removal from water in a mining area of Poopó Lake basin, Bolivia	Chitdeshwari Thiyagarajan Critical threshold level of Cd in soil and its bioavailability to green vegetable	Prasad Majeti Phyto-products from <i>prosopis juliflora</i> (Velvet mesquite) applied in phytoremediation
17:00-17:20	Eduardo Moreno Jiménez Impact of root mineralization on As availability in soils	Ma. Catalina Alfaro De La Torre Evaluation of a constructed wetland of subsurface flow to remove toxic elements from solution	Jennifer de Livera Cadmium solubility in paddy soils: effects of variable redox conditions and competitive ions	Summary and Remarks: Rufus Chaney, Paula Madejon, Nabanita Dasgupta, Alicia Melgoza
17:20-17:40	Fien Degryse Reported Michaelis Constants (KM) for Cd and Zn uptake by plants reflect diffusion limitations around roots, not the affinity of metal transporters	Laura Marang Determination of probabilistic Kd values for freshwater combining speciation code and Bayesian statistics	Summary and Remarks: Giancarlo Renella, Tatiana Zotina and Maria E. Montero	
17:40-18:00	Summary and Remarks: Walter Wentzel, Markus Puschenreiter, Pavel Tlustos	Summary and Remarks: Maria Eugenia García and Alan Baker		

Morning, Wednesday 15 July 2009

	Room 1	Room 2	Room 3	Room 4
	Technical Session 6	Technical Session 9	Technical Session 6	Technical Session 5
	Chairs: Margarita Gutierrez, Josefina Rodriguez, Lena Q. Ma	Chairs: Carlos Green , Robert Garrett	Chairs: Margarita Gutierrez,	Chairs: Michel Mench and Giancarlo Renella
9:00-9:20	Barry Rosen Biogeochemical cycling of arsenic by a Yellowstone thermoacidophilic eukaryotic alga	Carlos Green Ruiz Cu and Pb geosorption by Ca-montmorillonite from aqueous solutions: Effect of salinity	Margarita Eugenia Gutiérrez Ruiz Geochemical behavior of arsenic and heavy metals in semiarid contaminated soils	Amir Fotovat Assessment of Ni and Zn contamination in polluted soil by kriging method in North East of Iran (Mashhad)
9:20-9:40	Lucy Mar Camacho Arsenic and fluoride removal from drinking water by adsorption on natural zeolite	Robert Garrett Macro-relationships between regional-scale field pea (<i>Pisum sativum</i>) chemistry and soil-type and eco-classification in western Canada	J. Viridiana García Meza Acidophilic microorganisms from a mine-heap: could they live and operate under high As concentration?	Giancarlo Renella Microbial community composition in trace element contaminated soils subjected to phytostabilization
9:40-10:00	Hiram Castillo Study of localization and chemical forms of arsenic in three species of the <i>Parkinsonia</i> plant genus using X-ray spectromicroscopy	Moritz Bigalke Isotopic fractionation of copper during soil genesis	Gabriela Sánchez Viveros Toxicity and accumulation of arsenic in the <i>Azolla-Anabaena</i> symbiosis	Gary Pierzynski Influence of compost on microbial function and community structure when applied to heavy metal mine wastes

10:00-11:00	Keynote Speaker: Erik Smolders Importance of Regulations, Critical Loads of Metals and Other Trace Elements to Terrestrial Environments
11:00-11:20	Coffe break & Posters Presentations

	Room 1	Room 2	Room 3	Room 4
	Symposium 4	Technical Session 3	Technical Session 6	Technical Session 5
	Chair: Walter Wenzel	Chairs: Lydia Hernández, Alejandra Martin D.	Chairs: Margarita Gutierrez,	Chair: Michel Mench and Giancarlo Renella
11:20-11:40	Helle Marcussen Speciation analysis of phytosiderophores released from the roots of barley genotypes	Teresa Moorillon Biological treatment to reduce heavy metal content in wastewater by a packed column reactor	Ruth Alfaro Arsenic and fluoride in thermal springs at the Eastern zone of Cuitzeo basin (Araró), Michoacán, México	Tiina Maileena Nieminen Household biocompost and native woody plants in remediation of Cu-Ni polluted forest soil

Morning, Wednesday 15 July 2009

	Room 1	Room 2	Room 3	Room 4
	Symposium 4	Technical Session 3	Technical Session 6	Technical Session 5
	Chair: Walter Wenzel	Chairs: Lydia Hernández, Alejandra Martin D.	Chairs: Margarita Gutierrez,	Chair: Michel Mench and Giancarlo Renella
11:40-12:00	Olga Popovic Bioavailability of trace metals in contaminated soils of western Balkan	Lydia Hernández Rivera Electrocoagulation with possible magnetic removal of water pollutants	Cristo Omar Puente Valenzuela Behavior of alfalfa (<i>Medicago Sativa</i>) cultivated in an organic soil with three different doses of arsenic	Rafael Clemente Evaluation of a composted and uncomposted solid olive mill waste and their water soluble extracts for remediation of a heavy metal polluted soil
12:00-12:20	Jakob Santner Ectomycorrhization decreases the ratio of Cd/Zn translocation from roots to leaves of <i>Populus tremula</i> plants	Amir Fotovat Sand-soil-organic matter filter column for removal of heavy metals from industrial waste water	Deogracias Ortiz Pérez Determination of total arsenic and fluoride in drinking water in San Luis Potosí State, México	Paramsothy Jeyakumar Comparative tolerance of poplar and microorganisms to copper and zinc toxicity in a biosolids-amended soil
12:20-12:40	Markus Puschenreiter Repeated extraction of Cd from contaminated soils – implications for phytoremediation	Ismael Acosta Removal of chromium (VI) in solution for shell of shrimp	Lourdes Ballinas Casarrubias Arsenic removal by ultrafiltration composite membrane	Engracia Madejón Arbuscular mycorrhizal fungi (AMF) and biosolids to enhance the growth of Australian native grasses on sulphidic mine tailings
12:40-13:00	Summary and Remarks: Walter Wenzel and Markus Puschenreiter	Onofre Monge Amaya Copper biosorption in an aerobic bioreactor packed with zeolite	Lourdes Villalba Arsenic found in water supplied to rural communities of the Rosales county, Chihuahua	Wolfgang Friesl Hanl Application of soil amendments on seven smelting and mining affected european soils for immobilization of heavy metals
13:00-14:00	Lunch			
14:00-14:20	Posters presentation			

Afternoon, Wednesday 15 July 2009

	Room 1	Room 2	Room 3	Room 4
	Symposium 3	Symposium 7	Technical Session 6	Technical Session 5
	Chairs: Danny D. Reible, Domy Adriano	Chairs: Jorge Gardea T. and J.R. Peralta Vide, Felix San Román	Chair: Margarita Gutierrez,	Chair: Michel Mench and Giancarlo Renella
14:20-14:40	Danny D. Reible Current practices for the assessment and remediation of contaminated sediments	Víctor Cerdá Trace determination by means of a combined use of flow techniques with chromatographies	Jie Qin Arsenic methylation by <i>cyanidoschyzon merolae</i> from Yellowstone Park	Chitdeshwari Thiyagarajan Dynamics of manganese in compost-amended bauxite residue sand
14:40-15:00	Kirk Scheckel Synchrotron analysis of metal immobilization in sediments	Ganga M. Hettiarachchi Subsurface transformations of trace elements in reduced multi metal-rich geo-materials using noninvasive x-ray spectroscopy techniques	Magda Mateo As(III) oxidation and scorodite precipitation in bioleaching solutions at 30°C and 70°C	Luis Roberto Gutierrez Espinoza Sunflower (<i>Helianthus annuus L.</i>) germination response to metal concentrations
15:00-15:20	Caroline Vansimaey Ripening of contaminated sediments: effect on organic matter-bound and iron oxides-bound metals	J. Viridiana García Meza Evaluation of the biooxidation of reduced sulfur forms generated at the pyrite (FeS ₂)- <i>Acidithiobacillus thiooxidans</i> interface	María Aurora Armienta Influence of mining wastes on the enrichment on arsenic and heavy metals in a Mexican river	Cecilia Valles Aragón Chemical stabilization of polluted soils with heavy metals
15:20-15:40	Y. Meriah Arias Thode Bacterial and benthic community response to apatite, acetate, and chitin amendments in marine sediment	Luz Leal Analytical methodologies for arsenic determination exploiting flow injection-based approaches	Josefina Rodriguez Rosales Overexploitation effects of Valle of Guadiana's aquifer	Summary and Remarks: Michel Mench and Giancarlo Renella
15:40-16:00	Yongseok Hong Experimental and mathematical investigations of metals release upon sediment resuspension	Magda Mateo Selective determination of As ⁺³ in bioleaching solutions by differential pulse polarography	Gijs Du Laing Presence and mobility of arsenic in a wide region around a gold mine near the city of Oruro on the Bolivian altiplano	
16:00-16:20	Coffe break & Posters Presentations			

Program Timetable

Afternoon, Wednesday 15 July 2009

	Room 1	Room 2	Room 3	Room 4
	Symposium 3	Symposium 7	Technical Session 6	Technical Session 8
	Chair: Danny D. Reible, Domy Adriano	Chairs: Jorge Gardea T. J.R. Peralta Videa and Felix San Roman	Chair: Margarita Gutierrez	Chair: Eric Van Genderen
16:20-16:40	Joerg Rinklebe Exploiting a new technique to study pollution control processes in flooded soils and sediments – a better understanding towards an adequate remediation	Azam Ghorbani Measurement uncertainty of Se and Cd determination in blood sample by graphite furnace atomic absorption spectroscopy	Summary and Remarks: Margarita Gutierrez, Lena Q. Ma, Gijs Du Laing, Josefina Rodriguez, Lucy Mar Camacho, Maria Aurora Armenta, Luly Ballinas, Jie Qin, J. Viridiana, Ruth Alfaro, Cristo Omar, Lourdes Villalba	Steve McGrath Utilising ecotoxicology data from the UK long-term sludge trials for environmental protection
16:40-17:00	Danny D. Reible Potential toxicity of amendments used for treating contaminated sediments	Víctor Cerdá Automatic MSFIA method for water monitoring in an energy co-generation system from a MW incinerator		Adam Ryan Evaluation and refinement of the freshwater biotic ligand model for lead
17:00-17:20	Anna Sophia Knox Active caps for the remediation of mixtures of contaminants and resistance to erosion	Corina Solís Rosales Analysis of trace metals in environmental samples by PIXE. Applications to the Mezquital Valley, Mexico		Amanda Black Changes in soil solution speciation and wheat uptake of Ni in a sandy soil treated with biosolids and metal salts
17:20-17:40	Summary and Remarks: Danny D. Reible and Domy Adriano	Katie L. Moore NanoSIMS analysis of trace elements in cereal grain		Stefan Ruyters Substrate addition enhances the adaptation rate of nitrifying and denitrifying communities in zinc contaminated soils
17:40-18:00		Summary and Remarks: Felix Roman and J. R. Peralta, Jorge Gardea		Summary and Remarks: Eric Van Genderen

Morning, Thursday 16 July 2009

	Room 1	Room 2	Room 3	Room 4
	Symposium 6	Symposium 2	Technical Session 9	Technical Session 2
	Chair: Steve McGrath Maria Armienta, Martha Litter, Fangjie Zhao	Chairs: Rainer Schulin and Magdi Selim	Chair: Carlos Green and Robert Garrett	Chair: Alex Itzkandar and Eduardo Herrera
9:00-9:20	Doris Vetterlein Arsenite efflux by plant roots comparison of hypropinc and soil grow plants	Liesbeth Van Laer The soil Fe/C ratio explains the mobilization of Zn upon waterlogging	Mauricio Antonio Ramos Osuna Cadmium levels in the edible portion of skipjack tuna <i>Katsuwonus pelamis</i> from the eastern Pacific Ocean: preliminary results	Eduardo Herrera Isotopic content of particulate matter in two campaigns in Chihuahua Valley
9:20-9:40	Marta Litter Low-cost technologies based on heterogeneous photocatalysis and zerovalent iron for arsenic removal in the Chacopampean Plain, Argentina	Suzanne Beauchemin Mobilization and attenuation of antimony at an inactive gold mine	Laurent Lassabatere Studying and modelling the unusual fixation law $Zn = Cd$ $\ll Pb$ in a calcareous fluvio-glacial deposit	Massimo Pizzol Impact pathway approach on lead (Pb) emissions from a municipal waste combustion plant
9:40-10:00	Mario Alberto Olmos Márquez Use of <i>eleocharis macrostachya</i> in constructed wetlands for arsenic removal	Veronika Gyuricza Do arbuscular mycorrhizal fungi transport radiocesium between plants?	Summary and Remarks: Carlos Green, Robert Garrett	Alfredo Campos Trujillo Source category identification of trace elements in PM10 from Chihuahua City (Northern Mexico)
10:00-11:00	Keynote Speaker: Fangjie Zhao Arsenic in Food and water: a Global problem			
11:00-11:20	Coffe break & Posters Presentations			

Monrning, Thursday 16 July 2009

	Room 1	Room 2	Room 3	Room 4
	Symposium 6	Symposium 2	Technical Session 4	Technical Session 7
	Chair: Steve McGrath Steve McGrath Maria Armienta, Martha Litter, Fangjie Zhao	Chairs: Rainer Schulin and Magdi Selim	Chairs: Gary Pierzynski, D. Chidambaram, Peter Englund Holm	Chair: Victor Cerdá, André Rosa, Jose Peralta Videa
11:20-11:40	Lena Q. Ma. Field-scale phytoremediation of arsenic-contaminated groundwater using Chinese brake fern (<i>Pteris vittata</i>)	Jean Martins Role of bacteria transport in the accelerated transfer of heavy metals in natural and urban soils	Gary Pierzynski Influence of P on the speciation of Pb and Zn in a Pb/Zn smelter-contaminated soil	André Rosa Development of a new analytical approach based in ultrafiltration system for in situ characterization of the interaction between metallic species and organic matter in aquatic systems
11:40-12:00	Jurate Kumpiene X-Ray spectroscopic analyses of As contaminated mining spoils 10 years after chemical stabilization	Lixia Liao Competitive sorption of nickel and cadmium in soils	Grega E. Voglar Stabilization / Solidification of metal contaminated soil with cement	Jan Groenenberg Are we able to predict trace metal binding to DOM? Validation and uncertainty analysis of the NICA-Donnan model
12:00-12:20	Shaw-Wei Su Food safety of root and vegetable crops harvested from high As-contaminated soils in Guandu Plain, Taipei, Taiwan	Rafael Angulo Jaramillo Role of the sedimentary structure on the heavy metals transfer in the unsaturated zone of an urban stormwater basin	Cristina Souza Freire Nordi Algal extracellular polysaccharides immobilized in nanostructured thin films used for heavy metal removal from aqueous solutions	Douglas Beak Cobalt distribution and speciation in soils exposed to altered redox conditions through submergence
12:20-12:40	Paul Williams Arsenic uptake by and speciation in macrophytes	Majid Afyuni Effect of temporal variability in soil hydraulic properties on solute transport modeling	Felix Roman Velazquez New nanocomposites to remove heavy metals in aqueous solutions	Arturo Aguirre Gomez A voltammetric method for determining free metal activities and the diffusion/kinetic effects on the lability of Cd, Cu, Pb and Zn complexes in aqueous solutions
12:40-13:00	Abdul Khaliq Arsenic dispersion in arid high mountains of Hindu Kush Ranges, Northern Pakistan	Summary and Remarks: Rainer Schulin and Magdi Selim	Dev Chidambaram Palladium (0) nanoparticle formation by <i>clostridium sp.</i> BC1 provides an effective biocatalyst for hexavalent chromium remediation	Jessica Adelman Change in oxidation rate of stibnite as affected by the addition of varying amounts of pyrite in a flow-through system

13:00-14:00	Lunch
14:00-14:20	Posters Presentation

Afternoon, Thursday 16 July 2009

	Room 1	Room 2	Room 3	Room 4
	Symposium 6	Symposium 8	Technical Session 4	Technical Session 7
	Chair: Steve McGrath Maria Armentia, Martha Litter, Fangjie Zhao	Chair: Alan Baker, Jaco Vangronsveld, Edmundo Castellanos	Chairs: Gary Pierzynski, D. Chidambaram, Peter Engelund Holm	Chair: Victor Cerdá, André Rosa, Jose Peralta Videá
14:20-14:40	Babar Ali Shah Arsenic contaminated groundwater from parts of Middle Ganga Plain, UP-Bihar, India: influence of fluvial geomorphology and quaternary stratigraphy	Nicholas W. Lepp Woodland development on contaminated soils in N.W. England –benefits and risks	Irena Twardowska Potential for sustainable use of biowaste in non-point applications	Fernando Maya Alejandro Implementation of in-line pre- and post-column sample treatments in Multi-Syringe Chromatography and their applicability to the determination of trace pollutants in environmental samples
14:40-15:00	Elke Suess XAS-based characterization of thioarsenates and their transformation to thioarsenites in acidic synthetic solutions	Theo Thewys Is the introduction of phytoremediation crops economically viable?	Peter Engelund Holm Comparison of EDTA, NTA and soluble humic substances as washing agents for Cd and Cu polluted soil	Wolfgang Wilcke Stable isotope ratios of Cu and Zn to distinguish anthropogenic from native Cu and Zn in soil
15:00-15:20	Mauricio Ormachea Muñoz Arsenic in shallow wells around Poopó Lake in the Bolivian Altiplano	Alan Baker Phytostabilization of saline and arsenic contaminated gold mine tailings using native grass species redgrass (<i>Bothriochloa macra</i> (Steudel) S.T.Blake) Lazarides in the Victorian Goldfields, Australia	Masafumi Yoshinaga Biotransformation of methylarsenicals at a Florida golf course: Role of soil bacteria and abiotic factors	Antonio Serra MSFIA system for selenium determination using a C18 membrane disk
15:20-15:40	Summary and Remarks: Steve McGrath Maria Armentia, Martha Litter, Fangjie Zhao	Nadia Waegeneers Intake of lead through the consumption of home-produced eggs	Amir Fotovat Effect of copper and organic matter on copper distribution in two calcareous soils	Jean Martins Heavy metal sorption onto Gram-negative bacteria: a combined approach of solution chemistry, MET-EDX and EXAFS

15:40-16:00	Summary and Remarks: Steve McGrath Maria Armienta, Martha Litter, Fangjie Zhao	Engracia Madejón	Miquel Vidal	Roberto Ramirez Leal
		Restoration strategies in the guadiamar area of South Spain: Evaluation of success after ten years after the aznalcollar accident	Use of Non-hazardous waste materials and clays for the in-situ remediation of a heavy-metal contaminated soil	Morphological, size and chemical characterization of inorganic particles atmospheric by scanning electron microscopy with EDS
16:00-16:20 Cofee break & Cultural Event				
	Room 1	Room 2	Room 3	Room 4
		Symposium 8	Technical Session 4	Technical Session 7
		Chair: Alan Baker, Jaco Vangronsveld, Edmundo Castellanos	Chairs: Gary Pierzynski, D. Chidambaram, Peter Engelund Holm	Chair: Victor Cerdá, André Rosa, Jose Peralta Videa
16:20-16:40		Jaco Vangronsveld Metal accumulation in plants with added economical value grown on metal contaminated soils: sustainable use of these soils for bio-energy production and possibilities for phytoextraction	Metka Udovic The impact of earthworms (<i>Lumbricus terrestris</i>) on the fractionation and bioavailability of Cu in soil remediated by EDTA leaching	José Ángel Hernandez-Viezcás Application of Laser Ablation Inductively Coupled Plasma Mass Spectroscopy for Lead, Copper, and Nickel Quantification in Mesquite (<i>Prosopis</i>) Tissues
16:40-17:00		Michel Mench Phytoremediation of Cu-contaminated soils at a timber impregnation site	Ines Ahumada Heavy metals extractability in mollisol and inceptisol soils of central Chile amended with Biosolids	Summary and Remarks: Victor Cerdá, André Rosa, Jose Peralta Videa
17:00-17:20		Summary and Remarks: Alan Baker, Jaco Vangronsveld and Edmundo Castellanos	Summary and Remarks: Gary Pierzynski, Peter Engelund and D. Chirambaram	Presentations of Winners of the Environmental Education Contest
17:20-18:00	Keynote Speaker: Tara Sabo Attwood The toxic effects and environmental impacts of nanoparticles			
18:00 - 19:00	Closing Ceremony			

Poster Presentations

All posters will be displayed for one day. All posters are to be placed on the boards in the poster viewing area on the entrancy of the Diamante Room in the Soberano Hotel. Posters have been allocated a poster number as listed in the Poster Index. Poster authors must be present in order to attend their poster and answer questions at the nominated times.

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