

## Tuesday 18.07 - Blue room

### Processes

9:20	Gustafsson	Cadmium, copper and lead sorption to forest soil B and C horizons - the importance of organic complexation
9:40	Hudcová	Sorption mechanisms of arsenate on Mg-Fe layered double hydroxides
10:00	Wiggenhauser	Zinc isotope fractionation during grain filling of wheat
10:20	Nascimento	<del>Accumulation and sources of trace elements in sugarcane Brazilian soils</del> <b>CANCELLED</b>
10:30		Coffee break
11:00	Wu	Silver accumulation in a wheat-rice rotation after repeated application of biosolids: Occurrence in residual sludge, transformation, and relationship with soil properties
11:20	Yan	Impact of N supply on grain Cd loading in durum wheat: use of stable isotope of Cd as a tracer

### Modelling

11:40	Feinberg	Investigating the atmospheric selenium cycle through chemistry climate modelling
12:00	Froger	Spatial and temporal dynamic of the contamination in an urban catchment: combining metal isotope geochemistry and radionuclide chronometers
12:20		Lunch break
13:30	Elbana	Sorption-desorption of cadmium and nickel in soil
13:50	Pampura	5500-year record of trace element accumulation in Staroselsky Mokh, an ombrotrophic bog in NW Russia
14:10		Posters and coffee break
16:10	Ratié	Nickel distribution and isotopic fractionation in a Brazilian lateritic regolith: coupling Ni isotopes and Ni K-edge XANES

### Bioavailability

16:30	VanEynde	Modelling Zn bioavailability in tropical low Zn soils: Geochemical multi-surface models and partition functions
-------	----------	---

### Wednesday 19.07 - Blue room

9:20	Gray	Fluorine accumulation and loss from an irrigated pasture soil
9:40	khan	Impact of Soil Drying-Rewetting on Leaching of Nutrient Trace Elements
10:00	Luster	Role of carboxylates released by microorganisms and roots of alpine pioneer plants in mobilising trace elements during early soil formation
10:20	Cuske	Copper solubility, speciation and toxicity in contaminated soils under the conditions conducive for release of ammonia
10:30		Coffee break
11:00	Löv	Mobilization of particulate, colloidal and dissolved Pb in contaminated soils - effect of rainfall intensity and soil type
11:20	Lin	Investigation of biogeochemical controls on formation, uptake and accumulation of methylmercury in the paddy ecosystem in Taiwan
11:40	Puschenreiter	Mobilization and uptake of heavy metals by wheat plants grown on contaminated soils
11:50	Viala	Predictive statistical modelling of Cadmium content in durum wheat grain based on soil parameters
12:00	Imseng	Fate of Cd in agricultural soils: A stable isotope approach to anthropogenic impact, soil formation and soil-plant cycling

## Posters – Wednesday, 19.07, E-floor, Main Hall

Bauer	Features of Cu (II) sorption by soil differing in texture and parent rock
Cagnarini	Trace elements Pb, Cu, Zn and Cd simulation in a long-term crop trial with the model IDMM-ag: capabilities and uncertainties
Dradrach	Solubility of arsenic and antimony in historical mine soils in the Sudetes,
Gelly	Zn isotopes as tracers of a 166-year old Pb-Ag contamination in soils in National Parc of Calanques, France
González-Chávez	Leaching and runoff dispersion of potentially toxic elements from mine tailings to Toliman River in Mexico
Lin	Column studies on the permeability and cadmium mobility in soils during chemical leaching
Nguyen	Contamination of Durum Wheat by Cadmium : Lessons from the Field
Nguyen	SimTraces: A Numerical Simulator for Predicting the Accumulation of Trace Elements by Crops
Rodríguez-Seijo	Fractionation of potentially toxic elements in soils from an abandoned shooting range (NW Spain)
Selim	Kinetics of molybdenum adsorption-desorption in soils
Singh	Bioavailability of heavy metals (Cd,Cr,Ni, Pb) to French Marigold( <i>Tagetes patula</i> ) in relation to soil properties
Tiberg	Leaching of heavy metals from pyrite cinder - evaluation by leaching tests and geochemical modelling
Veselská	Redox transformation of Cr(VI) during adsorption on soil components and their mixtures: combination of spectroscopic and isotope approach
Viala	Cadmium buffer power, a tool to predict Cd phytoavailability?