

Monday 17.07 - Violet room

9:50	Lanzirotti	New and Future Opportunities for Synchrotron X-ray Trace Element Analysis of Environmentally Relevant Samples: a Perspective from the Advanced Photon Source and the National Synchrotron Light Source II
10:20	Castillo	The ID21 beamline at ESRF: sub-micron spectroscopy under cryo conditions for life and environmental sciences
10:30		Coffee break
11:00	Sarret	Dynamics of Zn in urban wetland soil-plant systems: Coupling EXAFS and isotopic approaches
11:20	Sjostedt	Lead(II) speciation in four contaminated Swedish soils – a combination of extended X-ray absorption spectroscopy and geochemical modelling
11:40	Paterson	Megapixels per minute: chemical imaging of environmental samples with fast X-ray fluorescence microscopy
12:00	Koch	Use of confocal x-ray fluorescence (CXRF) imaging in the determination of arsenic distribution and speciation in biological tissues
12:20		Lunch break
13:30	Vincze	2D/3D elemental imaging and quantification using laboratory and synchrotron X-ray fluorescence for environmental and geoscience applications
14:00	Yun	Novel trace element mapping system with micron-scale resolution and sub-ppm sensitivity for environmental and geological research
14:20	Fittschen	In-vivo elemental imaging of plants using XRF
14:30		Posters and coffee break
16:10	Porfido	Laboratory-based X-ray multianalytical approach to assess the bioavailability of arsenic in contaminated soils
16:30	Minkina	Comprehensive approach to studying the nature of interaction between Cu (II) ions and the surface of soil particles
16:40	Siqueira Freitas	X-ray microanalytical studies of trace elements in the tripartite symbiosis
16:50		Awarding of the best poster prizes

Posters – Monday, 17.07, D-Floor, Foyer North

Adamo	Monitoring heavy metal content in polluted sites by portable XRF analyser and conventional laboratory-based techniques: relations and differences according to elements properties and origin
De La Rosa	Iron speciation and characterization in PM10 from a Mexican city: X-ray absorption spectroscopy as a tool for the identification of the potential source of pollution
De La Rosa	Zinc speciation in mine dust and soils in Mexico trough synchrotron techniques
Falkenberg	Cryogenic X-ray fluorescence tomography using the Maia detector and a cryo-stream at beamline P06
Lopata	Elemental mapping revealed different adaptation strategies in seeds of Zn hyperaccumulating plant <i>Arabidopsis halleri</i> from Poland
Montarges-Pelletier	Evolution of zinc speciation in river particles during a flood event, X-ray absorption spectroscopy at bulk- and micro-scales
Scheckel	Application of high energy resolution X-ray fluorescence detection spectroscopy on environmental samples
Spiers	Synchrotron SXFM investigation of primed and/or germinated wheat (<i>Triticum aestivum</i> L.): Fe and Zn distribution, speciation and associated radiation damage
Tappero	A portable cryostage system for X-ray fluorescence microprobes
Terzano	X-ray solutions for trace elements in the environment @ Micro X-ray Lab
Vantelon	LUCIA, the SOLEIL beamline dedicated to μ XRF in the tender X-ray domain
Wang	Synchrotron-based XRF technique provides new methods to visualize trace elements in hydrated, fresh plant tissues