

Heavy metals: From the Environment to the Man

(Official languages, Portuguese and English) <http://eventos.fct.unl.pt/heavymetals2016/>

Program

21 Março 2016- Anfiteatro da Biblioteca – FCT/UNL	
09:00-09:20	Registration
09:20-09:30	José Paulo Santos; Maria Luisa Carvalho: Opening session
Interaction, effects, speciation (Chair: António Dias)	
09:30-10:00	Teresa Pinheiro (IST) (Invited) Visualizing the interactions of nanoparticles with cells
10:00-10:30	Margarida Correia Santos (IST) (Invited) Dynamic metal ion speciation by voltammetric methods
10:30-11:00	António Marques (IPMA) (Invited) Heavy metals in seafood in a changing environment: speciation, detection, effects, impacts in public health and mitigation strategies
11:00-11:30	Coffee
Toxic elements in human health (Chair: Isabel Catarino)	
11:30-11:50	Marta Manso (FCT/UNL: FBAUL) Toxic metals in tattoo inks
11:50-12:10	Cristina Oliveira (DF-FCUL) Heavy metals on the skin: Assessment of heavy-metals in cosmetic-products
12:10-12:30	Sofia pessanha (DF-FCT/UNL) Determination of high amounts of mercury in human samples: the use of mercury in medicine
12:30-12:50	Fernando Reboredo (FCT/UNL) Heavy metal content of Ficus carica L. and Cucurbita pepo L. var. cylindrica, collected close an area of intense mining activity, in the Southern Portugal
12:50-14:00	Lunch
Forensic applications and calculations (Chair: Fernando Parente)	
14:00-14:30	Ignasi Queralt (CSIC, Barcelona) (Keynote) Forensic applications of X-ray fluorescence: From heavy metals analysis to crime evidence
14:30-15:00	Fátima Araújo (CTN-IST/UL) (Invited) Heavy metal assessment in main Iberian estuaries (Douro, Tagus and Guadiana) and adjacent continental shelf
15:00-15:30	José Pires Marques (FCUL) (Invited) Calculation of linewidths and fluorescence yields
15:30-15:50	João Fonseca (Polícia Judiciária) Forensic analysis and the role of heavy metals
15:50-16:20	Coffee
Biological applications (Chair: Pedro Amaro)	
16:20-16:40	Célia Henriques (FCT/UNL) Silver containing electrospun wound dressings
16:40-17:00	João Cruz (FCT/UNL) Detecção de elementos traço radioactivos por espectrometria alfa
17:00-17:20	Mauro Guerra(FCT/UNL) Study of mineral translocation and accumulation in biofortified durum wheat (Triticum durum) and bread wheat (Triticum aestivum) grains
17:20-18:20	Poster session

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	Heavy metals in the environment (Chair: Maria Fátima Raposo)	
09:00-09:30	Hugo Silva (ISEL) (Invited)	Integrated Pollution Assessment for Heavy Metals in Lisbon
09:30-10:00	Miguel Reis (CTN-IST/UL) (Invited)	New capabilities of PIXE using microcalorimeter energy dispersive 10 to 20 eV resolution spectrometers
10:00-10:30	Miguel Mourato (ISA-UL) (Invited)	Heavy metals: from farm to fork?
10:30-11:00	Coffee	
	Heavy metals in the environment (Chair: Manuela Abreu)	
11:00-11:20	Maria João Batista (LNEG)	Mine waste materials to mineral by-products from wastes: A way to increase environmental and economic value
11:20-11:40	Ana Padeiro (IPMA)	Trace element contamination and availability in Fildes Peninsula, King George Island, Antarctica
11:40-12:00	Carlos Cardoso (IPMA/CIIMAR)	Risk-Benefit assessment of raw and cooked farmed gilthead seabream consumption taking into account the bioaccessibility data
12:00-12:20	F. H. Reboredo (DCT-FCT/UNL)	Arsenic determination in two different species of eucalyptus growing in artificial contaminated soils – portable X-ray fluorescence versus triaxial-XRF technique
12:20-14:00	Lunch	
	Detection systems (Chair: Jorge Carvalho Silva)	
14:00-14:30	Ana Luisa Silva (Univ Aveiro) (Invited)	Developments on large area XRF imaging system based on gaseous detector
14:30-15:00	Cristina Monteiro (GIAN, UC) (Invited)	Gaseous detectors
15:00-15:20	Ana Cristina Silva (DF-FCT/UNL)	Synchrotron radiation and Nanophysics
15:20-15:40	Filipa Pires (CEFITEC-FCT/UNL)	Catechins: natural antioxidants against oxidative deterioration of DNA
15:40-16:10	Coffee	
	Analytical Systems (Chair: Pedro Amaro)	
16:10-16:30	Hélio Luis (CTN-ISTUL)	The potential of Micro-AMS for environmental actinide studies
16:30-16:50	João Francisco (IPMA/IPLEIRIA)	Bioaccessibility of some contaminant elements from edible seaweed <i>Fucus spiralis</i>
16:50-17:10	Matilde (DF-FCT/UNL)	Assembly of a portable X-Ray fluorescence spectrometer with tri-axial geometry
17:10-17:30	Dylan Marques (DF-FCT/UNL)	A Simulation of the NIST vacuum double crystal spectrometer
17:30-17:50	Cátia Santos	Impact of heavy elements in bone health
17:50-18:00	Adelaide Jesus : Closing session	