



International Workshop

Nanoparticles for Soil Remediation: from green synthesis to ecotoxicological effects

Escola Superior Agrária de Coimbra, Portugal



The Scientific Committee is pleased to announce that the Workshop on Nanoparticles for Soil Remediation will be held at Escola Superior Agrária de Coimbra, Portugal, on the 19th of December 2014.

The participants will have the opportunity to exchange knowledge, views and ideas on the use of nanoparticles for soil remediation. The discussion goes from synthesis of nanoparticles to the degradation mechanisms of persistent organic pollutants and enhancement of biological removal of pollutants. Relevant ecotoxicological effects of introducing nanoparticles in soils will be addressed, and a pilot-scale remedial action of a contaminated site using nanoparticles will be presented.

Scientific Committee

Celia Dias-Ferreira, CERNAS, IPC
Margarida Quina, DEQ, UC
Rosa Quinta-Ferreira, DEQ, UC

Organising Committee

Celia Dias-Ferreira, CERNAS, IPC
Margarida Quina, DEQ, UC
Myriam Kanoun-Boulé, CERNAS, IPC
Verónica Oliveira, CERNAS, IPC

Contact details

Research Center for Natural Resources,
Environment and Society
Bencanta, 3040-316 Coimbra, Portugal
Polytechnic Institute of Coimbra
Tel. (+351) 239 802 277
Email: nanodc@esac.pt
Venue: Escola Superior Agrária de Coimbra
Bloco B, Anfiteatro H1

Free entrance, but registration prior to the event to Myriam Boulé (nanodc@esac.pt)

Programme, 19th December 2014

09:00 Reception & Welcome

09:30 Synthesis and Characterization of Nanoparticles, Rosa Quinta-Ferreira (University of Coimbra, Portugal)

10:00 Fundamentals on the electrokinetic transport of nZVI in soil, Emilio Rosales Villanueva (University of Vigo, Spain)

10:30 Environmental impacts of nanoparticles: from cells to ecosystems, Arunava Pradhan (University of Minho, Portugal)

11:00 Coffee Break

11:15 Simultaneous use of electroremediation and iron nanoparticles for the degradation of PCB in soils, Helena Gomes (FCT/UNL, Portugal)

11:45 Carbon Material @ Metallic Magnetic Nanoparticles composites for the biodegradation of organic compounds, Luciana José Ribeiro Pereira (University of Minho, Portugal)

12:15 Soils and groundwater remediation with zero-valent iron nanoparticles: Barreiro pilot test, Jorge Gonçalves (Geoplano, Portugal)

12:45 Closing Ceremony

