



Università degli Studi di Roma "Tor Vergata"

DIPARTIMENTO DI INGEGNERIA CIVILE E INGEGNERIA INFORMATICA

LABORATORIO DI INGEGNERIA AMBIENTALE

Seminari sulla gestione e bonifica sostenibile dei siti contaminati

Avviso di Seminario

Si rende noto che **MARTEDI' 17 MAGGIO 2016 alle ore 12.00** presso l'**AULA ARCHIMEDE**, la

Prof.ssa Aurora SANTOS LOPEZ (Università Complutense di Madrid)

terrà un seminario dal titolo:

Remediation of Soil and Groundwater contaminated by Chlorinated Pesticides

Abstract

Obsolete pesticides mega-sites are still present in the EU member countries like France, Germany, Poland and Spain. The compounds found on these sites are threatening human health and environment in the European Community. Besides, new cases are appearing at the eastern borders of the European Community. Many of these pesticides are chlorinated compounds, listed in the Stockholm Convention, and an effort should be made to eliminate these dangerous chemicals. Technologies as InSituChemicalOxidation (ISCO) and InSituChemicalReduction (ISCR) are promising methods for remediation of soil and groundwater polluted by these compounds. Results obtained with both technologies in abatement of Hexachlorocyclohexane isomers will be discussed. Besides, strategies to implement these technologies at field scale will be also commented.

Tutti gli interessati sono cordialmente invitati ad intervenire.

prof. ing. Renato Baciocchi

Aurora Santos is Professor at the Chemical Engineering Department (University Complutense of Madrid) since 2006. She has been working at the UCM Chemical Engineering Department since 1988. She received a Ph.D. in Industrial Chemistry by the University Complutense of Madrid in 1992, and she gained a postdoctoral grant from the EU, spending one year at the Politecnico di Torino (Chemical Engineering Department) under the supervision of Prof. G. Baldi, in 1993. Main research lines are applied catalysis, chemical reactors and treatments of industrial effluents. In the last fifteen years, she has been working in advanced oxidation technologies applied to wastewater treatment and soil remediation, taking part in a Spanish network on soil characterization and remediation, "CARESOIL". In both wastewater treatment and soil remediation, she has focussed on modelling and optimizing the oxidation treatment in order to establish the most efficient and cost-effective conditions for the abatement of both the original organic pollutants and the toxic intermediates. Advanced Oxidation processes, such as Fenton Reagent, or activated persulfate have been employed to treat both the aqueous phase and contaminated soil. She has taken part in 28 research projects financed by private or public funds. She has more than 140 contributions to international conferences with 89 papers published in peer review journals (h factor =25, ORCID ID orcid.org/0000-0002-7804-5677).