Invitation to Lecture

Contaminated sites assessment for the reduction of environmental pollution by risk-based approach

Lecture profile
17 May 2017
12:00 – 14:00

Xenia Building,
Classroom 'Γ'

Abstract
Related to the environment, as a priority of the public investment in research and development, stimulation of both sustainable land management and transport and dispersion of pollutants in the atmosphere and risk assessment for a correlated and coherent socio-economic development are important aspects to be taken into account. In light of this necessity and, in order to minimize risks, decision makers should take measures that are taking into account information based on the estimated risk. The role of research in this field is to identify the most appropriate solution in order to assess human health risk assessment related to contaminated soil and air pollution. These are helping the environmental decision makers to provide risk management based framework for setting priorities, planning, implementing and reporting on the management of contaminated sites and on air quality. In this way, it is becoming possible to choose a management system that will ensure minimum costs and environmental impact, and acceptable risks. The decision makers can be both internal enterprises responsible for the existing pollution, and external such as public authorities specialized in environmental protection. Results gained through these kinds of approaches are leading to establishing connection between air pollution, contaminated soil, plants, animals and human beings.

Speaker profile

Lecturer Dr. Eng.
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About the speaker

Diana Mariana COCÂRȚĂ (b. August 29, 1979) received her BSc in Environmental Engineering (2003), MSc in Power Generation Environmental Impact (2004), PhD in environmental engineering (2007) from Trent University, Italy and PhD in energy engineering (Magna Cum Laude award) from University POLITEHNICA of Bucharest (UPB), Romania. Now she is lecturer in the framework of the Department of Energy Production and Use, Faculty of Power Engineering, University POLITEHNICA of Bucharest, Romania and head of the Laboratory for Analysis, Control and Remediation of Contaminated Soils from the Research Centre for Advanced Materials, Products and Processes (CAMPUS) of UPB. Her current research interests include different aspects of soil and air pollution, reduction of environmental pollution by risk-based approach and technologies for soil remediation. She invented a system and method for the assessment and control of industrial pollution for which in 2017 a patent application was requested (patent application no. A / 00445 of 07.04.2017), contributed to an invention on method and equipment for electro-chemical technology for matrices polluted with organic / inorganic contaminants for which in 2013 a patent application was requested (patent application no. A / 00639 of 08.26.2013) and she developed environmental informatics' tools and registered it at the Romanian Copyright Office (ORDA): the first one is for the management of the contaminated sites, while the second one is for the assessment and control of industrial pollution. She has (co-) authored 9 books, member in International Program Committee of 3 conferences and workshops. Her scientific activity includes more than 70 publications in conferences, national journals and ISI journals.