



Scientific & Technological Park VEGA  
(Venice-Marghera) 28<sup>th</sup>- 29<sup>th</sup> November 2005

ORGANISED BY THE ITALIAN AGENCY FOR ENVIRONMENTAL  
PROTECTION AND TECHNICAL SERVICES (APAT)

**Objectives:**

After a decade of ERA theory and practice, several major issues have emerged concerning the implementation of the methodology for the remediation of contaminated megasites throughout Europe. Experiences conducted by university researchers and government agencies have converged into three independent recently concluded projects: ERA-MANIA, ABACUS and LIBERATION. These have chosen to share views about a number of common themes centred on Risk Assessment, Bioavailability and Decision-Support-Systems. The presentation of the results of the three projects will open the international workshop, which will be followed by invited lectures and open discussions.

Italian government officials and national experts have been invited to be informed of the progress of ERA-MANIA vis-à-vis national risk policy development and in relation to the management of the ACNA of Cengio (Savona, Italy) megasite; one of the former European largest chemical plants, situated in Piedmont (North-western Italy).

*Participation to the international workshop is free of charge and open to a wide international attendance. Lectures will be held in English.*



**APAT**  
Agenzia per la protezione  
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**Decision Support Systems  
for the Integration  
of Bioavailability  
in Ecological Risk Assessment:  
Results from 3 European  
Projects**

**VEGA**  
**Venice Gateway for Science  
and Technology  
Marghera (VE)**

**28<sup>th</sup>- 29<sup>th</sup> November 2005**

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PROTECTION AND TECHNICAL SERVICES (APAT)**

**PROGRAMME**

**Monday, 28<sup>th</sup>**

**9:00 Registration**

**9:15 - 9:45**

Welcome by the organising authorities:

- Office of the ACNA-Cengio Government Commissioner
- Italian Agency for the Protection of the Environment and Technical Services (APAT)
- "Ca' Foscari" University of Venice

**Session I: Project descriptions**

**9:45 - 10:00** ERA-MANIA Project. Objectives and methodological approach. A. Marcomini, Ca' Foscari University, Venice

**10:00 - 10:15** Collecting the fruit of ERA-MANIA for drafting national guidelines. N. Pacini & G. Marella, APAT, Italy

**10:15 - 10:30** Liberation project. Objectives and methodological approach. J. Jensen, NERI, Denmark

**10:30 - 10:45** Abacus project. Objectives and methodological approach. J. Parsons, University of Amsterdam

**10:45 - 11:20 Coffee break**

**Session II: Sorption, Bioavailability and toxicity**

**11:20 - 12:00** Sorption of organic pollutants in soils and sediments and its role for bioavailability -

An Introduction. Kai-Uwe Goss, EAWAG, Switzerland

**12:00 - 12:20** Recent insights into the sorption of organic pollutants. G. Cornelissen, Norwegian Geotechnical Institute

**12:20 - 12:40** Bioavailability and bioaccumulation of organic pollutants in sediments. J. Kukkonen, University of Joensuu, Finland

**12:40 - 13:00** Effects of sorption on the biodegradation of PAHs in sediments. J.J.O. Calvo, IRNASE, CSIC, Spain

**13:00 - 14:00 Lunch**

**14:00 - 14:20** Bioavailability assessment of organic pollutants using solid phase micro extractions. T. ter Laak and J. Hermens, Utrecht University

**14:20 - 14:40** Bioavailability assessment of organic pollutants using cyclodextrin extractions. T. Hartnik and J. Jensen, NERI, Denmark

**14:40 - 15:00** Bioavailability assessment of organic pollutants using Tenax and other solid phase methods. P. van Noort, RIZA, The Netherlands

**15:00 - 15:20** Sequential supercritical fluid extraction to assess plant uptake of organic pollutants. T. Bogolte and A. Loibner, BOKU, IFA-Tulln, Austria

**15:20 - 15:50 Coffee break**

**15:50 - 16:10** Soil pore water testing as part of site specific ecological risk assessment. Johan Bierkens, VITO, Belgium

**16:10 - 16:30** Development of a toxicity identification evaluation (TIE) procedure for the assessment of contaminated land. N. Sorokin, I. Johnson and D. Holmes, WRC, UK

**16:30 - 16:50** Bioavailability assessment of inorganic pollutants by chemical extraction and biological uptake from soil. G.A. Petruzzelli, University of Pisa

**16:50 - 17:10** Role of biomarkers, ecotoxicological tests and ecological index testing site specific ERA and their application in a case study. A. Viarengo, University of Alessandria and Piedmont Environment Agency

**17:10 - 17:30** Discussion on sorption, bioavailability and toxicity

**19:00** Meeting at Piazzale Roma and transfer to restaurant (near Piazza San Marco)

**Tuesday, 29<sup>th</sup>**

**Session III: Perspectives in site-specific ecological risk assessment and Decision Support Systems**

**9:00 - 9:40** Perspective on Ecological Risk Assessment for contaminated sites and role of Decision Support Systems. G. W. Suter II, U.S. EPA, Cincinnati, Ohio

**9:40 - 10:00** Perspective on Screening Risk Assessment: the role of land use-dependent soil screening values. A. Critto, University of Venice

**10:00 - 10:20** Perspective on Site-Specific Risk Assessment: the role of TRIAD and Weight of Evidence approaches. M. Mesman, M. Rutgers and A.J. Schouten, RIVM, The Netherlands

**10:20 - 10:40 Coffee break**

**10:40 - 11:00** ERA-MANIA DSS: structure and role of multi-criteria decision analysis. S. Giove, University of Venice

**11:00 - 11:20** ERA-MANIA DSS - Module 1: framework and software for comparison and selection of suitable lines of evidence. E. Semenzin, University of Venice

**11:20 - 11:40** ERA-MANIA DSS - Module 2: framework and software for terrestrial ecosystem impairment assessment. E. Semenzin, University of Venice

**11:40 - 12:00** Discussion on site-specific ecological risk assessment and Decision Support Systems

**12:00 - 12:40** Press conference led by authorities, project leaders and invited plenary speakers

**12:40 - 14:00 Lunch**

**Session IV: The national context of contaminated sites management**

**14:00 - 14:20** Latest news about the on-going remediation of the "ACNA - Cengio" contaminated megasite. Prof. Giuseppe Romano, Government delegate for the ACNA - Cengio megasite

**14:20 - 14:40** Initiatives conducted by APAT to support the management of contaminated megasites. Giuseppe Marella, APAT

**14:40 - 15:00** Operational protocol for site characterisation and monitoring. Paolo Campaci, ARPA Veneto

**15:00 - 15:20** Development of methodological criteria for Ecological Risk Assessment. Nic Pacini, APAT

**15:20 - 15:40 Coffee break**

**15:40 - 16:30 Round Table Discussion:** "Challenges in the implementation of ERA to contaminated megasites of national concern" led by A. Marcomini, University of Venice

Closure of the workshop

