A HANDS-ON COURSE:

Risk Assessment for Contaminated Land

Human Health and Environmental Risk Assessment (January 2004)
Groundwater Risk Assessment and Remedial Targets (January 2004)

January 2004, Copenhagen, Denmark

Risk assessment is now recognised as a standard tool in the evaluation and management of soil and groundwater pollution. This intensive course considers the main technical and practical issues involved in undertaking risk-based assessment and corrective action for contaminated land.

The course is split into two modules with the first dealing with Human Health and Environmental Risk Assessment and the final two with Groundwater Risk Assessment and the derivation of Remedial Targets.

Delegates will acquire the practical skills necessary to develop and use conceptual models. They will also learn how to conduct quantitative risk assessments and derive remedial targets for clean up. The subjects covered as part of the course are summarised below:

- ***The role of risk assessment in contaminated land assessment and remediation***
- ***Conceptual models and data requirements for risk assessment***
- ***Human health risk assessment models***
- ***Risk assessment for environmental receptors***
- ***Risk assessment for controlled waters***
- ***The use of groundwater fate and transport modelling in risk assessment***
- ***Introduction to probabilistic risk assessment***
- ***Risk based remedial design***

Time will be split evenly between lectures, discussion and the hands-on use of the software, with application to real-world case studies and group exercises.

Course Contributors

The course is presented by leading experts involved in contaminated land risk assessment consulting and research. The main course contributors are listed below.

Dr Alan Herbert is a hydrogeologist with over 17 years experience of contaminant transport modelling and groundwater resource assessment. He has particular experience in dealing with low permeability media via his background in the nuclear waste industry and through directing numerous landfill and contaminated land risk assessments.

Dr Janet Whittaker is a mathematical modeller with considerable experience in the assessment of groundwater flow and contaminant transport using geostatistical and stochastic approaches. She has particular experience in the development of modelling software, including the conceptualisation of physical, chemical and biological processes, characterisation of fissured and heterogeneous porous media, and the application of robust numerical models for the solution of the governing flow and transport equations.

Rob Sears is an experienced hydrogeologist with particular experience in the application of modelling and risk assessment techniques to landfill and contaminated land problems, and the use of GIS and databases in hydrogeological investigations.

Who should attend?
This course is designed for all those involved in the assessment, management and remediation of contaminated land, including national, county and local authority staff, consultants, problem-owners and researchers.

Course Software:
The course is based on application of RAM (Risk Assessment Model), MODFLOW, MODPATH, MT3D and RT3D using Groundwater Vistas and also features Winflow and Win Tran. RAM and Groundwater Vistas are developed by ESI.

Cost and Registration:
A single place on any one of these modules costs 727 Euro (DKK 5,400) plus tax. Booking a place on both modules entitles you to a 10% discount**.** Refreshments and lunch are included. The closing date for bookings is the 11th of January 2004.

Course delegates are also elligible for a 20% discount on any ESI developed software purchased in combination with a course! Let us know if you would like to try some demonstration software.

To register, complete the form below (leave the grey areas blank) and post it to the course organisers at the address given below. An invoice will be sent to you. Your place(s) will be confirmed when the invoice has been paid. Alternatively you can also register on-line at http://makoni.com/courses/registration.htm. Cancellations are subject to an administration charge of 162 Euro (DKK 1200) if notified at least 30 days before the course. No refunds are possible after this. Places are limited so book early to ensure your place.

Booking Form

Name:_____ **Organisation:**_____

Address:_____

Tel. No:_____ **Fax No:**_____ **Email:** _____

Special dietary requirements: _____

Course Name	No. of Places	Cost
Human Health and Environmental Risk Assessment (module 1)		
Groundwater Risk Assessment and Remedial Targets (module 2)		

20% SOFTWARE DISCOUNT
I am interested in the software offer. Please forward me details
yes ☐ **no** ☐

Tax:	
Total Amount Due:	

Post or fax this form to: Makoni Associates
Dæmningen 10, 2500 Valby, Copenhagen, Denmark

Please contact us for further information.
Tel: +45 36 17 60 12 Fax: +45 36 17 40 12 Email: info@makoni.com
Web: www.makoni.com