

dec  
12-16  
2011

short course

# introduction to reactive transport modelling



The course will take place at the IMDEA Agua Institute,  
"Parque Científico y Tecnológico" of the University of Alcalá

Calle Punto Net nº4, 1ª Planta · 28805 · Alcalá de Henares · Madrid (Spain)

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## overview

The 5-day course is designed to introduce participants to the modelling of water flow, solute transport and geochemical reactions within the vadose zone through the application of the modelling software Hydrus 1D and Comsol Multiphysics.

## course description

The lessons will be held from Monday to Friday approximately from 9:00 to 15:00. Conceptual and mathematical description of water flow and reactive solute transport processes in the vadose zone will be given during the theoretical sessions of the course. Theory of biodegradation of organic compounds will also be introduced. "Hands-on" computer sessions will provide the participants the opportunity to become familiar with the two modeling software and to translate theory into practice.

It is planned to reserve some time during the last day of the course for a discussion in which the participants introduce and comment open questions related to their own investigation.

## language

The course will be given in English.

## course instructors

### Prof. Ekkehard Holzbecher

Georg-August University of Göttingen (Germany)

### Prof. Claus Kohfahl

Instituto Geológico y Minero de España (Sevilla) and Free University of Berlin (Germany)

## prerequisites

Prior modeling experience is not an absolute requirement but it could increase the benefits from the course.

## organization committee

Raffaella Meffe

María Virtudes Martínez Hernández

## organized by



## for information please contact

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