



FEFLOW

Advanced groundwater modelling - working with piChem and 2D coupling

This two-day, hands-on course aims at providing you with the skills for advanced modelling topics. Depending on the needs of the group of participants, a selection of the below topics is offered.

FEFLOW is widely recognised as a comprehensive software package for subsurface flow and transport simulation. FEFLOW's unique mesh capabilities (structured and unstructured) allows you the highest degree of flexibility to account in detail from the most simple to complex geometrical configurations. The software is used by leading research institutes, universities, consulting firms and government organisations all over the world.

FEFLOW's scope of application ranges from simple local-scale to complex large-scale modelling. Application areas include water management, mine water, saltwater intrusion, geothermal energy, and variably saturated media.

COURSE TOPICS

PICHEM

piChem is a plugin for FEFLOW for the calculation of advanced geochemical reactions together with aqueous phase flow and transport. piChem employs the interface version of PHREEQC as a reaction engine, which enhances FEFLOW's built-in reaction capabilities with the full set of geochemical reactions in PHREEQC.

2D COUPLING

Surface and subsurface flow systems are unified continua that need to efficiently operate together in a water resource distributed modelling framework. Watershed modelling studies targeting surface water flood and storm events, or groundwater flooding events involving complex, strong surface water -groundwater interactions require access to powerful, physically-based simulation tools. This new coupling integrates the state-of-the-art Ground Water model FEFLOW 7.3 and the state-of-the-art Surface Water model MIKE 21 Flow Model Flexible Mesh (MIKE21FM) into a single, dynamically coupled modelling system via the MIKEFLOOD model.

TARGET GROUP AND PREREQUISITES

Groundwater professionals working in consulting companies, public authorities, university and research institutions. You must be acquainted with the basic functionalities of the **latest FEFLOW version and MIKE 21 version** prior to this course, either through experience or through participation in the FEFLOW course 'Introduction to groundwater modelling'.

DATE AND TIME

15 - 16 Oct 2020.

There will be 2 sessions on each days:
10:00-12:00 and 13:00-15:00 (HU, BUD
timezone)

LOCATION AND VENUE

Online

FEEES AND DISCOUNTS

Standard price: € 1000 + VAT
Discounts:

- 10% with valid Service Maintenance Agreement on MIKE Powered by DHI product

THIS IS INCLUDED

- Training material
- Training Certificate

NOT INCLUDED

Computers for hands-on exercises are not included. Participants must bring their own computers.

LANGUAGE

Lectures and training material are in English.

REGISTRATION

Deadline for registration is 13 Oct. A minimum number of trainees is 6 person.

REGISTRATION LINK: <https://forms.gle/eA76WYBw6tJopjq99>

CONTACT

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RELATED COURSES

- FEFLOW - Introduction to groundwater modelling - 25-26 February 2020, Budapest
- FEFLOW - Numerical modelling for geothermal installations - 27-28 February 2020, Budapest
- IV. Hungarian FEFLOW user day (free event) - 14 October 2020, Online

INSTRUCTOR

CARLOS A. RIVERA VILLARREYES

Dr. Carlos Rivera works as the Director Sales Service and Support at DHI WASY, Germany. Within his activities, he leads the FEFLOW user support team. Dr. Rivera has trained professionals around the world in different groundwater modelling topics in English and Spanish. Dr. Rivera has profound knowledge of groundwater and unsaturated-zone modelling as well as parameter estimation (model calibration, e.g., with PEST).



Dipl.-Ing. (FH), Civil Engineering, University of Piura, Peru

MSc, Desert Studies - Water Resources Management, Ben-Gurion University, Israel

PhD, Hydrology, University of Potsdam, Germany



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THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training - face-2-face as well as online.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses.

Learn more about THE ACADEMY on www.theacademybydhi.com

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