



FEFLOW

Introduction and advanced topics

This five-day, hands-on course provides you with comprehensive training in groundwater modelling using FEFLOW. It consists of an introductory and an advanced part. The introductory part is identical to the course 'Introduction to groundwater modelling' while the advanced part aims at providing you with the skills for advanced modelling topics. To accommodate particular preferences of the group of participants, a selection of the advanced topics listed below is offered.

FEFLOW is widely recognised as a comprehensive software package for subsurface flow and transport simulation. FEFLOW's unique meshing capabilities (structured and unstructured) allows for the highest degree of flexibility to account in detail for 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

Introductory Part

- Introduction to FEFLOW and its graphical user interface
- Creating 2D and 3D mesh geometries (structured and unstructured meshes)
- FEFLOW's interface with geological software
- Setting up flow models with confined and unconfined aquifers
- Setting up mass-transport models and groundwater-age models
- Setting up steady-state and transient models
- Usage of GIS/CAD data interfaces and other formats
- Results evaluation, visualisation and animation

Advanced Part

- Unsaturated flow modelling
- Density-dependent flow modelling
- Heat transport, including geothermal energy systems (closed/open-loop)
- Fractures and discrete features
- Multicomponent transport and chemical reactions
- Introduction to the FEFLOW programming interface and Python scripting
- Introduction to automatic model calibration with FePEST
- Hands-on exercises

DATE AND TIME

22 - 26 February 2021
 19 - 23 April 2021
 23 - 27 August 2021
 27 September - 01. October 2021
 15 - 19 November 2021

The course starts at 09:00 and finish at 17:00.

LOCATION BERLIN / ONLINE POSSIBLE

DHI WASY GmbH,
 Volmerstraße 8, 12489 Berlin, Germany.

FEES AND DISCOUNTS

Standard price: 2000 €

Discount:

- for 3rd and subsequent participants from same company..... 1200 €

All prices are exclusive of VAT and taxes.

THIS IS INCLUDED

- Training material
- Access to PC with all software required
- Latest MIKE Powered by DHI demo version
- Lunch and refreshments
- Training certificate

LANGUAGE

Lectures and training material are in English.

REGISTRATION AND CONTACT

Deadline for registration is 2 weeks before course start. A minimum number of trainees is required for the course to proceed. DHI WASY reserves the right to reschedule the training course up to 2 weeks prior to the published course date scheduled.

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TARGET GROUP AND PREREQUISITES

Groundwater professionals working in consulting companies, public authorities, university and research institutions. Participants are expected to have a basic knowledge of groundwater modelling as well as computer application.

RELATED COURSES

- FEFLOW - Introduction to groundwater modelling
- FEFLOW - Advanced groundwater modelling
- FEFLOW - Introduction to IFM programming
- FEFLOW/FePEST - Introduction to model calibration, uncertainty analysis and predictive analysis
- NUMERICAL MODELLING FOR GEOTHERMAL INSTALLATIONS - Application of FEFLOW in near-surface and deep geothermic
- GROUNDWATER MODELLING AT MINE SITES - Introduction to using FEFLOW in mining



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EXAMPLE OF INSTRUCTORS

JINTAO LIU

Mr. Jintao Liu is a member of the Sales Service and Support team at DHI Germany. He specializes in hydrogeological modelling with FEFLOW and has consulting experience in mass/heat transport processes and regional groundwater management. Within his tasks, he supported local and international customers via training courses and technical support services in English, German and Chinese



MSc, Hydrogeology, Freie Universität Berlin

BSc, Applied Geophysics, China University of Geosciences, Beijing (CUGB)

SOPHIE GRUSCHKA

Ms. Sophie Gruschka is a water resources engineer and part of the team Sales Service and Support at DHI Germany. She specializes in the modelling of groundwater flow and quality. She supports customers with the development of groundwater modelling tools via Python. Beside her modelling portfolio, Sophie has experience in water sampling and chemical analyses.



MSc., Water Resources Engineering, Lund University

BSc., Environmental Sciences, TU Bergakademie Freiberg

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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