



GROUNDWATER MODELLING AT MINE SITES

Introduction to using FEFLOW in mining

This one-day, hands-on workshop provides you with the skills you need for applying FEFLOW for groundwater simulation at mine sites. It will cover typical modelling tasks such as mine dewatering, groundwater rebound, pit lakes, well optimization, mine water balancing, etc. The course uses specially developed hands-on exercises supported by lectures on theory, relevant practical aspects as well as project examples.

FEFLOW is widely recognized as one of the most comprehensive software packages for subsurface flow and transport simulation. FEFLOW's unique mesh (structured and unstructured) provides the highest degree of flexibility in all modelling processes at mine sites. 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.

WORKSHOP TOPICS

Part 1: Technical handling

- Introduction to FEFLOW and its graphical user interface
- Estimation of dewatering volumes and balances
- Obtaining pore pressure as a basis for slope-stability calculation
- Integrating water quality aspects
- Simulation of pumping wells, drains and other installations
- Modelling groundwater rebound and pit lakes
- Phreatic surfaces and variably saturated media
- Faults, fractured systems and anisotropic porous media
- Interfacing with geological modelling and surface-water simulation

Part 2: Case Histories

- Presentation of FEFLOW applications in real case studies (external speakers invited)

Part 3: Exercises

- Hands-on exercises

TARGET GROUP AND PREREQUISITES

Mining professionals working on ground water simulation in consulting companies, public authorities, university and research institutions. Participants are expected to have both a basic knowledge about groundwater systems. Prior experience with groundwater modelling is helpful, but not a prerequisite.

DATE AND TIME

11 July 2016
Workshop starts at 09:00 and finishes at 17:00.

LOCATION AND VENUE

KUBUS Leipzig, Permoser Straße 15, 04318 Leipzig, Germany

FEES

Standard price: € 249,90 (Including taxes)

THIS IS INCLUDED

- Training material
- All software required
- Latest MIKE Powered by DHI demo version
- Lunch and refreshments
- Training Certificate

LANGUAGE

Lectures and training material are in English, in case of strong request also parallel in German

REGISTRATION AND CONTACT

Deadline for registration is 20.June 2016. A minimum of 10 trainees is required for the workshop to proceed.. DHI reserves the right to reschedule the training course up to 3 weeks prior to the course date scheduled.

Please, register @:

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RELATED COURSES

- FEFLOW - Introduction to groundwater modelling
- FEFLOW - Advanced groundwater modelling
- FEFLOW - Introduction and advanced topics
- 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
- MIKE SHE - Integrated catchment modelling



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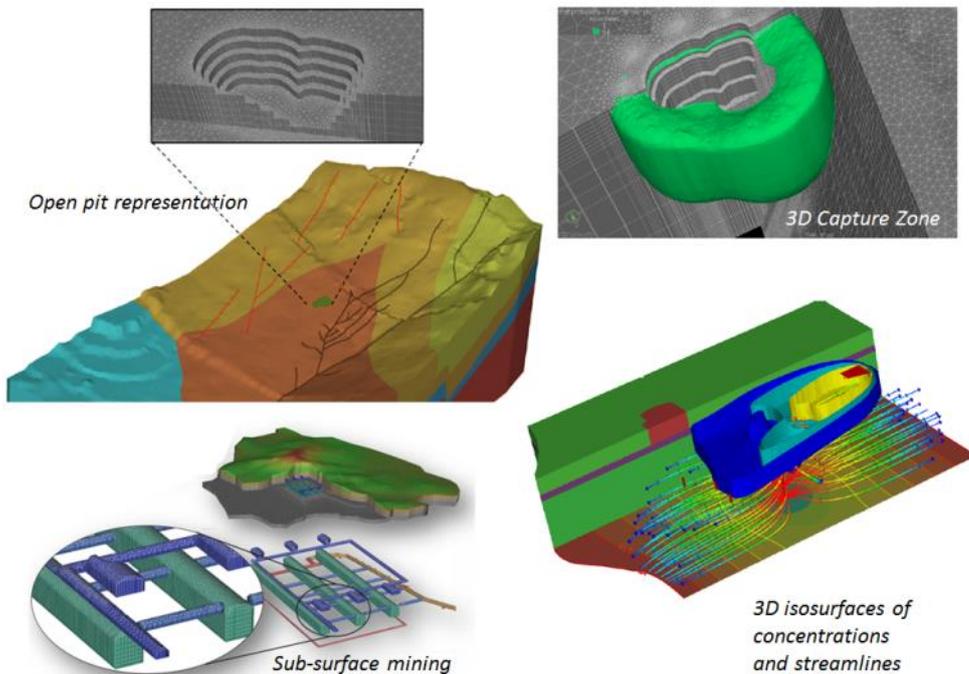
MAIN INSTRUCTOR

CARLOS A. RIVERA VILLARREYES

Dr. Carlos Rivera works as a consultant for groundwater modelling at DHI-WASY, Berlin. He is the head of the FEFLOW user support team and is an authorised FEFLOW trainer for national and international training courses and workshops. Dr. Rivera has profound knowledge of groundwater and unsaturated-zone modelling as well as parameter estimation (model calibration, e.g., with PEST). He has trained professionals in groundwater modelling as well as mining experts in English and Spanish.



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



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.

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.

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