

COURSES AND EVENTS CALENDAR 2017

DENMARK

FLOODING, URBAN WATER, COAST & MARINE,
SURFACE & GROUNDWATER, ENVIRONMENT & ECOSYSTEMS

BUILDING EXPERTISE





COURSE & EVENTS CALENDAR 2017

	FOCUS AREA	TITLE	DATES	LANGUAGE
URBAN WATER	MIKE URBAN COLLECTION SYSTEMS	Introduction to the modelling of collection systems	1-2 March	Danish
	MIKE URBAN WATER QUALITY	Introduction to the modelling of water quality in collection systems	30-31 May	Danish
	MODELLING OF STORM WATER FOR GREEN CITIES	Methods and structures	6-7 September	English
WR	MIKE HYDRO RIVER	Introduction to river and channel modelling	26-27 April	Danish
FLOODING	URBAN FLOOD DAMAGE MODELLING	Estimating the direct and indirect impacts of urban flooding	13-14 June	English
	STORM WATER SURGES AND THEIR HAZARDOUS IMPACTS	Modelling the present and the future for coastal planning and awareness	Upon request	English
	FLOOD MODELLING WITH FLEXIBLE MESH (FM)	Take your flood modelling a step further	Upon request	Danish
COAST AND MARINE	METOCEAN MODELLING FOR MARINE RENEWABLES	New trends in offshore metocean modelling and analysis	18-19 May	English
	DYNAMIC ANALYSIS OF MOORED VESSELS	Using MIKE 21 Mooring Analysis (MA)	30-31 May 04-05 October	English
	MIKE ECO Lab	A framework for bio-geochemical modelling	24-25 August	English
	MARINE HABITAT CONNECTIVITY	A numerical approach to study biological connectivity between marine habitats	24 October	English
	SCOUR AROUND MARINE STRUCTURES	Dealing with scour related problems in water environments	14-15 November	English
	PHYSICAL MODELLING OF MARINE STRUCTURES	When, why and how!	Upon request	English

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URBAN WATER	MIKE URBAN COLLECTION SYSTEMS Introduction to the modelling of collection systems	This two-day course gives you an introduction to data management and numerical modelling of urban collection system networks (separate and combined) in order to enable you to set up and run simple MU CS models.	<ul style="list-style-type: none"> Project setup Data organisation, import/export of external data Numerical and graphical editing and quality control Simulation of rainfall/runoff and pipe flow
	MIKE URBAN WATER QUALITY Introduction to the modelling of water quality in collection systems	This two-day course gives you an introduction to model water quality in urban collection system networks using MIKE URBAN. The aim is to enable you to set up and run basic water quality models and to assess and present the simulation results.	<ul style="list-style-type: none"> Surface runoff quality Advection-Dispersion Long Term Simulation and Advection-Dispersion Introduction to MIKE ECO Lab Local treatment options using MIKE ECO Lab
	MODELLING OF STORM WATER FOR GREEN CITIES Methods and structures	This two-day course gives you an introduction to different approaches to the modelling of various types of green infrastructure in MIKE URBAN and their effect on different types of storm events. Modelling of storm water quality is also included.	<ul style="list-style-type: none"> Modelling of green solutions Developments in urban storm water modelling with MIKE URBAN How to couple the green solutions with an existing drainage network Storm water quality and the modelling thereof Applying treatment water quality measures to various types of green infrastructure
WR	MIKE HYDRO RIVER Introduction to river and channel modelling	This two-day course gives you an introduction to the capabilities of the MIKE HYDRO River modelling system in order to enable you to set up and run basic river models with MIKE HYDRO River	<ul style="list-style-type: none"> MIKE HYDRO River and modular structure MIKE HYDRO River graphical user interface (GUI) Schematisation and application of simple river models Modelling basic hydraulic structures
FLOODING	URBAN FLOOD DAMAGE MODELLING Estimating the direct and indirect impacts of urban flooding	This one-day course provides the skills and knowledge for estimating the economic impacts of urban flooding. You learn about concepts and tools to analyse damage costs from flood maps, including DHI's Climate Adaptation Decision Support System (CADSS).	<ul style="list-style-type: none"> Introduction to urban flood damage modelling Flood damage estimation techniques Understanding data requirements Running the model Understanding and presenting calculation results
	STORM WATER SURGES AND THEIR HAZARDOUS IMPACTS Modelling the present and the future for coastal planning and awareness	This one-day course gives an overview of how to approach the problem of storm surge and how use models and new DSS system tools to evaluate and handle the potential hazards to coastal protection and loss of inland values (coastal flooding).	<ul style="list-style-type: none"> First screenings Climate perspective Boundary conditions from simple and complex downscaling Wave and erosional impact When to use dynamic or simplified (static) hinterland flooding Decision making in the cross- investment and economic loss
	FLOOD MODELLING WITH FLEXIBLE MESH (FM) Take your flood modelling a step further	This two-day advanced course aims to teach you how to improve your flood modelling projects by using flexible meshes. The emphasis is on the added value of using flexible meshes compared to rectangular grids.	<ul style="list-style-type: none"> Flexible mesh generation Optimising a mesh to reduce simulation times Specific 1D-2D coupling features with MIKE 21 FM Tips and tricks
COAST & MARINE	METOCEAN MODELLING FOR MARINE RENEWABLES New trends in offshore metocean modelling and analysis	This two-day course introduces modelling and analyses of relevance for marine renewable energy projects. It enables you to understand the benefits and limitations of metocean design data and guides you to develop these.	<ul style="list-style-type: none"> Introduction to wave and flow modelling Metocean modelling - data sources and requirements Model calibration and skill assessment Hindcast and forecast simulations Analysis and presentation of metocean data
	DYNAMIC ANALYSIS OF MOORED VESSELS Using MIKE 21 Mooring Analysis (MA)	This two-day course teaches you the fundamentals of mooring analysis using the MIKE 21 MA. The course gives you an introduction on how to set up a moored ship in a port which is subject to environmental forcings such as waves, currents and wind.	<ul style="list-style-type: none"> Frequency response of a moored vessel Convergence of a moored vessel Generation of external forcings (e.g. waves) Using MIKE 21 MA in time domain Processing and interpretation of results Visualisation of vessel movements in 3D
	MIKE ECO Lab A framework for bio-geochemical modelling	In this two-day course, you will receive a hands-on introduction to MIKE ECO Lab and learn how to set up simple bio-geochemical models in the MIKE FM modelling complex. The course will also include an introduction to ABM Lab.	<ul style="list-style-type: none"> Fundamentals of ecological modelling Introduction to MIKE ECO Lab/ABM Lab and dialogue overview Guidelines for ecological model development How to set up models in MIKE ECO Lab Calibration and validation procedures
	MARINE HABITAT CONNECTIVITY A numerical approach to study biological connectivity between marine habitats	In this one-day course, you receive a hands-on introduction to using ABM Lab for investigating and quantifying marine habitat connectivity. Upon completion of course, you are able to use numerical agent-based modelling practices in your own research	<ul style="list-style-type: none"> Fundamentals of agent-based modelling and its use in connectivity modelling Introduction to a connectivity case study Guidelines for connectivity model development How to build your own basic connectivity model in ABM Lab (hands-on)
	SCOUR AROUND MARINE STRUCTURES Dealing with scour related problems in water environments	This two-day course introduces you to the procedures of analysis related to assessing scour risk at marine structures. The focus is on offshore wind turbines and how to protect against or mitigate the scour formation.	<ul style="list-style-type: none"> Flow and force processes in the presence of cylindrical structures Explain drag, inertia and lift forces in currents and waves Scour around marine structures Scour in complex soils Scour protections systems and counter measures
	PHYSICAL MODELLING OF MARINE STRUCTURES When, why and how!	This four-day course introduces you to the principles of scale modelling and the methodologies involved. Main focus is on our wave generation and acquisition system Wave Synthesizer and wave analysis software within the MIKE Zero software.	<ul style="list-style-type: none"> Scaling principles and laws Consideration on scale selection Designing and constructing a scale model Wave generation and absorption Choice and use of instrumentation



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THE ACADEMY by DHI offers an umbrella of standard and tailored training courses of various duration and targeting different levels of water professionals, including managers/decision makers, mid-level professionals and technicians.

MIKE Powered by DHI courses

Our MIKE 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

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

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Trainers

Our trainers are experienced professionals, many of whom are recognized international experts in their areas. The use of highly professional trainers guarantees the quality of THE ACADEMY by DHI courses.

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Dates, venue and location

Our public enrolment courses are held at DHI headquarters in Hørsholm or at our subsidiary office in Aarhus, Denmark.

Language

In general, our courses are held in English or Danish or other languages upon request. Please contact us concerning your preference of language. Unless stated otherwise, all training material is provided in English.

Our standard course fees

(per person)

1 day: €530

2 days: €1,050

3 days: €1,330

(consecutive days only)

All prices are exclusive of 25% VAT.

Discounts

- 10 % if valid Service Maintenance Agreement (SMA)
- 33% for the 3rd and subsequent participants from same organisation.

What is included?

Course fees include training material, training certificates, computers on hand-on exercises, lunch and refreshments.

Registration

Deadline for registration is three weeks before commencement of course. A minimum of participants is required for courses to proceed. DHI reserves the right to reschedule courses up to one week prior to the commencement of a course.

You can register through our website

<http://worldwide.dhigroup.com/dk> or contact us at mike@dhigroup.com

Further information

About additional software courses, thematic or tailored training please contact us at mike@dhigroup.com

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