

MIKE by DHI 15th UK User Group Meeting

Lion Quays Waterside Resort, Shropshire

Draft Agenda - Tuesday 19 March 2013



09:00	Sign up & coffee	
09:30	Intro from DHI* ¹	Erland Rasmussen (EBR) - Managing Director MIKE by DHI Software: General Headlines Poul Kronborg (POK) – Business Area Manager (Marine) Torben Jensen (TSJ) – Business Area Manager (Urban) Bastian Rau (BRA) – Porous Media Consultant
10:30	Arne Vögler - UHI	A general overview of the TeraWatt project and wider context (MASTS, EcoWatt2050), followed by a description of the model domain, boundary conditions, calibration points, and so on.
11:00	Coffee & cakes	Refreshments and time for a chat
11:30	Mark Cramman - MWH	Hydrodynamic and Sediment Transport Modelling of Swindale Intake <i>Modification to the existing arrangements at the Swindale intake could negatively impact stilling pond hydrodynamics, which could impact fish passage and gravel management. A 2D hydrodynamic (HD) and sediment transport model (ST) has been applied to assess the potential impact of the proposed works on sediment dynamics in the upstream channel and floodplain and in the proposed stilling pond.</i>
11:50	Vicky Tonks – Mott MacDonald	Coastal Protection at Clacton: a multi-model approach <i>Recent experiences with MIKE 21 FM ST and LITPACK while investigating the Clacton beachfront</i>
12:10	Mike Streetly - ESI	Using FEFLOW to simulate Borehole Thermal Energy Storage <i>Some interesting thoughts and applications of FEFLOW</i>
12:30	Lunch	Plenty of time for a lovely lunch
14:00	Ann Saunders – Intertek Energy and Water Consultancy Services	Water quality in a Yorkshire lake <i>MIKE 3 Ecolab was used to model the water quality of a lake in Yorkshire. The study concentrated on phosphorus precipitation and associated water chemistry processes.</i>
14:20	George Mitchell / James Tomlinson – TechnoEconomica/Atkins	Combined thermal plume from multiple power stations in the Gulf using MIKE3 <i>We will present a detailed study of the issues involved in modelling multiple thermal and hypersaline discharges in to a warm environment. Issues of waste water recirculation, surface heat exchange and vertical stratification will be covered. We will also be offering some suggestions on ways in which this process could be improve in MIKE3. Specifically this will concern ground heat retention and excessive night cooling in shallow waters, and also power station sub-models.</i>
14:40	TBC	TBC
14:50	Barry Hankin – JBA Consulting	Integrated Catchment Modelling for the Lower Lee <i>Experiences and results</i>
15:10	Coffee & cakes	Refreshments and time for a chat
15:40	Jonathan Short - URS	Some interesting modelling experiences with MIKE by DHI software
16:00	Vera Jones - Atkins	River Almond WQ Study <i>A dynamic water quality model of the River Almond has been developed using MIKE-11 Ecolab with an overarching aim of assessing the impact of Scottish Water assets on the water quality of the river. An extensive recent (2011) water quality data set served as the basis for the model's development, which also included inputs from sewer network modelling. The model has been used to identify water quality parameters and specific locations of concern in the River Almond system, providing Scottish Water with a detailed assessment of catchment needs. The work will continue with identification of strategic options to meet the requirements of the Water Framework Directive and the Urban Wastewater Treatment Directive.</i>
16:20	Yiping Chen – Hyder Consulting	Tidal Energy Resources Assessment for Tamar (Plymouth) Estuary Narrows <i>Two MIKE21 FMHD models covering the English Channel and the Tamar estuary were developed to carry out an assessment of the tidal stream energy output potential. The Tamar model has been calibrated using continuous ADCP measured data at 3 locations. Three areas of high tidal stream power output potential with a mean tidal turbine output power density were identified in the Plymouth Narrows.</i>
16:40	Wrap up	Erland Rasmussen
17:00	Head off to the evening	Dinner is at 19:30

*¹ The training on the second day will include examples of new features, lesser known features and round table discussions.

MIKE by DHI Training Day

Lion Quays Waterside Resort, Shropshire

Draft Agenda - Wednesday 20 March 2013



MIKE 21 Training

09:00	Sign up & coffee	
09:15	What's New in 2012	A round-up of new & lesser known features
10:00	Round table 1	Feedback from users on their experiences
10:30	Coffee & cakes	Refreshments and time for a chat
10:45	Hands On	ABM Lab - Bring your own laptop if you want to follow the demonstration (Optional)
12:00	Demo	Wave Spectra Converter
12:30	Lunch	More nice food
13:30	Hands On	Littoral Processes FM - Bring your own laptop if you want to follow the demonstration (Optional)
14:40	Demo	Animator PLUS
15:00	Coffee & cakes	Refreshments and time for a chat
15:15	Round table 2	General Q&A session with Poul Kronborg (Business Area Manager) & Suzie Clarke (UK Marine Specialist)
16:30	Head off home	

MIKE FLOOD Training

09:00	Sign up & coffee	
09:15	Demo: MIKE 21 Flexible Mesh (FM) for Floodplains	Hands on introduction to MIKE 21 FM and Mesh Generation – Bring your own laptop if you want to follow the demonstration (Optional)
10:30	Coffee & cakes	Refreshments and time for a chat
10:45	Breaching in MIKE FLOOD: 5 Ways: • Coupled MIKE 11 Dambreak • Lateral DFS1 Couple • Landslide Option in MIKE 21 SG • Dyke Structure in MIKE 21 FM • Dynamic Mesh in MIKE 21 FM	Explore five (5) different ways of breaching in MIKE FLOOD (methods include the new Q/h boundary)
11:45	Infiltration in MIKE 21	Explore setups that demonstrate the MIKE 21 infiltration methodology and steps to incorporate spatial loss models
12:15	Batch Simulation and Affinity	Control your simulations for better efficiency
12:30	Lunch	More nice food
13:30	MIKE FLOOD AD Coupling	Hands on introduction to MIKE FLOOD AD Coupling
14:15	2D Rainfall Maps in the MIKE Zero Toolbox	Hands on exercise to develop time varying 2D Rainfall Maps
14:30	2D Mapping in MIKE 11 and MIKE FLOOD	Explore the mapping options in MIKE 11 and find out more about how these options can be used to generate integrated outputs (e.g. 2D velocity distribution) and bathymetries
15:00	Coffee & cakes	Refreshments and time for a chat
15:15	General Discussion Forum for Water Resources: Access a DHI Water Resources expert for technical queries & model assistance	Torben Jensen (Business Area Manager) Steve Flood (UK MIKE by DHI Manager) Mark Britton (Corporate Relationship Manager)
16:30	Head off home	

FEFLOW Training

09:00	Sign up & coffee	
09:15	Introduction to FEFLOW by Bastian Rau (FEFLOW Specialist)	To include: • 3D mesh geometries • Concepts of handling free water tables • Pathline analysis • Extending the model to a solute transport model
10:30	Coffee & cakes	Refreshments and time for a chat
10:45	Introduction to FEFLOW	(cont.)
12:30	Lunch	More nice food
13:30	Introduction to FEFLOW	(cont.)
15:00	Coffee & cakes	Refreshments and time for a chat
15:15	Introduction to FEFLOW	(cont.)
16:30	Head off home	