

Flood Modeller 2019

Programme

The Geological Society,
London, United Kingdom

Thursday 3rd October 2019
9:30 to 17:10

One of the industry's premier flood modelling events

The Conference is an excellent opportunity for new and existing users of Flood Modeller to find out more about the software and to network with others in the industry, meet the Flood Modeller team and help direct the future development of the software.

Presenting organisations:



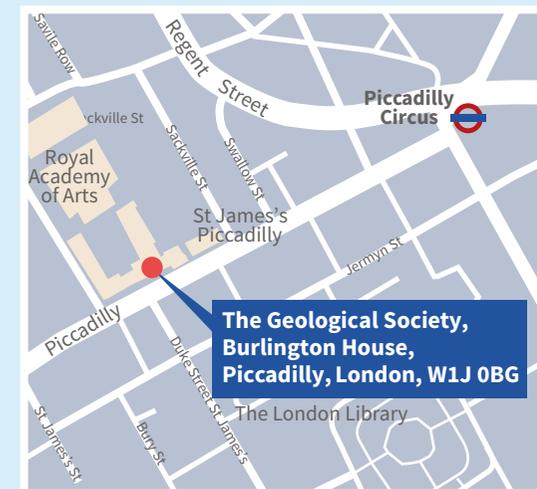
OPW Oifig na
nOibreacha Poiblí
Office of Public Works

CAPITA

JACOBS



Supported by:



What's new in Flood Modeller *Jon Wicks, Jacobs*

New projections of sea level rise from UKCP18 and FCERM project SC150009 *Stuart Allen, Environment Agency*

The latest climate change projections for the UK (UKCP18) were released in November 2018. These included new projections of sea level rise (SLR). The Environment Agency has worked closely with the Met Office to make sure that the projections are useful and useable by others. We outline the new SLR projections and how they differ from the previous set (UKCP09). We also present the new information products that were not available in previous projections and summarise the headline messages.

Using Flood Modeller to assess feasibility of large-scale catchment storage as mitigation for climate change *Stephen Bilby, Jacobs and Lewis Purbick, Environment Agency*

The Thames Catchment Storage study was an innovative climate resilience project which evaluated the use of multiple storage areas on a scale never before used in England. To complete this highly complex project within a tight timescale, what is possibly the largest single domain Flood Modeller hydraulic model in the UK was developed and models were run using Flood Cloud.

Using Flood Modeller in Flood Forecasting *Bryony Smith, Capita*

Flood Modeller was used to convert, calibrate and performance test 17 complex flood forecasting models from MIKE11 to Flood Modeller format. This presentation will highlight how Flood Modeller was used, lessons learnt and recommendations from the project.

National scale flood mapping using Flood Modeller 2D *Jonathan Garrett, JBA Consulting*

Modelling large catchments can quickly become complex when one considers what flows to use to represent the desired flood event at a useful level of detail - a balance between resolving realistic catchment processes in a simplified way that limits opportunities for model instability and keeps simulation times to a minimum.

This presentation provides a walk-through of a somewhat simplified but robust and relatively quick procedure used to derive fluvial flood mapping for the River Don in Aberdeenshire whereby over 100 km of the river and all its major tributaries were modelled. The modelling was undertaken using a combination of a 1D-2D and a series of 2D only models, the latter being the focus of this presentation. The presentation will also share some tips on using steady state models in Flood Modeller and reveal how to output some non-standard result grids.

Flood risk management at the SNCF using Flood Modeller *Mark Cheetham, SNCF (French National Railway Company)*

The SNCF owns and operates approximately 30000km of railway line in France. Due to geographical and climate variability, the railway network is exposed to different types of flood risk from surface water runoff from small catchments through to embankment breaches during flood events from larger watercourses. This presentation will show how the SNCF is using Flood Modeller at different phases of the flood risk management process and will highlight different modelling strategies using real case studies.

Modelling of a Larinier fish pass scheme using Flood Modeller *Kathryn Fuller, Arcadis* - Winner of the Flood Modeller Innovation and Success Awards

Arcadis was commissioned by the Environment Agency to undertake a flood modelling study in support of a fish pass scheme at Hamm Oil Mills on the Lower River Wey. The scheme intended to provide fish passage between the River Wey Navigation and the River Thames via Coleson's Channel.

Application of hydraulic modelling in OPW's national CFRAM programme in Ireland *Gerry Gallagher, Office of Public Works*

Detailed development of flood relief schemes programmed over the coming decade using Flood Modeller.

Flood Modeller Tips and Tricks *Konrad Adams and Bob Potter, Jacobs*

Flood Modeller and TUFLOW Simulations in the Cloud: Benchmarking Flood Cloud, when to use it and what it costs (Lunchtime optional session) *David Hughes, Waterco and Rob Honeywill, Jacobs*

Pre-conference Training Workshop

Wednesday 2nd October, Cottons Centre, London SE1 2QG
(£375+VAT, inc. a ticket to the conference)

This one-day Advanced Flood Modeller training course is aimed at those involved in the development and review of hydraulic models and focuses primarily on model diagnostics and debugging, advanced 1D structures and Flood Modeller automation tools.

For further information or to book your place - training@floodmodeller.com

Further information with regards to the course content - www.floodmodeller.com/advanced