



INTERNATIONAL WORKSHOP ON URBAN PLUVIAL FLOOD MODELLING

Monday 6th October 2014, 9:15 a.m. to 5:30 p.m.

Met Office, FitzRoy Road, Exeter, Devon, EX1 3PB, UK – Conference Room 1

- 09:15 09:45: Arrival, coffee and tea
- 09:45 10:00: Welcome and introduction Susana Ochoa-Rodríguez & Marie-Claire ten Veldhuis
- 10:00 11:30: Session 1* Approaches to the modelling of urban storm water drainage systems and urban pluvial flooding
 - Multi-Hydro: A multi-component physically-based model for detailed urban pluvial flood modelling Julien Richard & Agathe Giangola-Murzyn, École des Ponts PariTech, France
 - Fully-distributed vs. Semi-distributed urban drainage models Rui Pina & Susana Ochoa-Rodríguez, Imperial College London, UK
 - Application of a three-dimensional unstructured-mesh finite-element urban pluvial flooding model and comparison with two-dimensional approaches - Ting Zhang, Imperial College London, UK
 - 3Di 3-Dimensional high resolution surface water flood model: an application to the city of Amsterdam Wytze Schurrmans, Nelen & Schuurmans B.V., The Netherlands
- 11:30 11:45: Coffee break
- 11:45 12:55: Session 2* Approaches and techniques for rapid urban pluvial (surface water) flood modelling
 - 1D, 2D and hybrid surface flow models Nuno Simões, University of Coimbra, Portugal & Damian Murlà Tuyls, KU Leuven, Belgium
 - Formulation of a fast 2D urban pluvial flood model using a cellular automata approach Albert Chen, University of Exeter, UK
 - A flexible hydrodynamic modelling framework for GPUs and CPUs: Application to urban flood events Luke Smith, New Castle University, UK
- 12:55 13:45: Lunch
- 13:45 15:15: Session 3* Urban drainage/pluvial flood model calibration, verification and uncertainty estimation:
 - Model uncertainty analysis by variance decomposition Patrick Willems, KU Leuven, Belgium
 - Improving uncertainty estimation in urban hydrological modelling by statistically describing bias Dario del Giudice, Eawag, Switzerland
 - Real time calibration of urban drainage models Soren Thorndahl, Aalborg University, Denmark
 - Good practices for enhancing the verification process Alex Grist, Richard Allitt Associates, UK
- 15:15 15:30: Coffee break
- 15:30 17:00: Session 4* Operational urban pluvial flood models for real time applications
 - Experiences and challenges in the implementation of InfoWorks ICM Live for real time surface water flood forecasting in Leuven, Belgium – Stefan Kroll, Aquafin, Belgium
 - Real time modelling of sewer systems in London William Neale, Thames Water, UK
 - Real-time operational system for surface water flood risk management in Paris Speaker TBC from Veolia, France
 - Surface water flood forecasting and guidance in the UK Jon Millard, Flood Forecasting Centre, UK
- 17:00 17:30: Conclusions & Close
- 17:45 18:45: Guided tour to the Flood Forecasting Centre (open to all workshop participants and RainGain partners)

*Talks will be 15 min long and there will be a 30 min interactive discussion at the end of each session ** In this document, the terms urban pluvial flooding and surface water flooding are used interchangeably