

Dissemination Seminar: Modelling of Urban Flood Flows

25th January 2018, 9:30 - 15:00,
LT7, The Diamond, University of Sheffield, S3 7RD

Aim: A practitioner focused dissemination event hosted by the University of Sheffield which aims to present and discuss ongoing research in the area of urban flood modelling. This will include recent work from EPSRC project 'Experimental and Numerical Investigation of Flow Exchange in Urban Flood Flows' as well as from a range of other projects in the UK and Europe.

Agenda:

Time	Activity/Talk	Speaker
9:30 - 10:00	<i>Arrival, Coffee + Tea (in downstairs foyer).</i>	
10:00 - 10:30	<i>Introduction and overview</i>	James Shucksmith
10:30 - 10:50	<i>Understanding the interaction of sewer and surface flows in urban floods</i>	Matteo Rubinato
10:50 - 11:10	<i>Modelling the transport of contaminants in urban flood flows</i>	James Shucksmith
11:10 - 11:30	<i>Urban flood models, how accurate can they be in the vicinity of surface-drainage system interface structures?</i>	Ricardo Martins
11:30 - 11:45	<i>Coffee Break</i>	
11:45 - 12:05	<i>A practitioner viewpoint of urban flood modelling and industrial research needs</i>	Chris Digman
12:05 - 12:25	<i>CENTAUR: An intelligent autonomous system for local urban flood risk reduction</i>	Pete Skipworth
12:30 - 13:30	<i>Lunch</i>	
13:30 - 13:50	<i>"FloodEvac" - a bilateral project between Germany and India</i>	Jorge Leandro
13:50 - 14:10	<i>Smart forecasting: joined-up flood forecasting with uncertainties</i>	George Kesserwani
14:10 - 14:30	<i>Modelling the health impacts of urban flooding. Outputs from the PEARL project.</i>	Slobodan Djordjevic
14:30 - 15:00	<i>Discussion</i>	
15:00	<i>Close</i>	

Registration is free at <https://www.eventbrite.co.uk/e/dissemination-seminar-modelling-of-urban-flood-flows-tickets-40100929961>

Speakers:

James Shucksmith is a Senior Lecturer at the University of Sheffield with research interests in urban flooding and pollutant transport in urban and rural catchments. He currently leads the EPSRC project 'Experimental and Numerical Investigation of Flow Exchange in Urban Flood Flows' (EP/K040405/1).

Matteo Rubinato is a Research Associate at the University of Sheffield. In 2015 he completed a PhD on "Physical Scale Modelling of Urban Flood Systems" at the University of Sheffield. His current research interests include the development of novel flow measurement techniques and experimental modelling of urban floods.

Ricardo Martins is a Research Associate at the University of Aveiro. In 2016 he completed his PhD on 'Development of a 1D/2D State of the Art Urban Flood Model' at the University of Coimbra. His research interests include flood and urban drainage hydrodynamics and coupled 1D/2D urban flood modelling.

Chris Digman is Technical Director at MWH for urban drainage. He has worked for over 20 years in the water and wastewater industry specializing in flood risk management, pollution control, sewer solid movement and wastewater and stormwater management.

Pete Skipworth is Managing Director of Environmental Monitoring Solutions Ltd. He has interests in innovative sensor technology and intelligent wastewater networks. Pete is also Chairman of Ecus Ltd, a nationwide environmental consultancy. He has a PhD in hydrodynamics and is Visiting Professor at the Leeds Sustainability Institute at Leeds Beckett University.

George Kesserwani is a Lecturer and EPSRC fellow at the University of Sheffield. His work concerns the hydrodynamic modelling of floods and numerical methods. He has been recently awarded a five year EPSRC fellowship titled 'Smart forecasting: joined-up flood forecasting infrastructure with uncertainties'.

Slobodan Djordjevic is a Professor of Hydraulic Engineering at the University of Exeter. His work focuses on development and application of advanced tools for urban drainage and floods modelling, analysis and impact assessment and other areas of water and infrastructure management

Jorge Leandro is a Lecturer at the Technical University of Munich. His research interests include the development of 1D/1D and 1D/2D urban integrated hydraulic flood models and the numerical simulation of hydraulic structures.