

Flood Risk Assessment and Brownfield Regeneration



Date: Tuesday 15th February 2011

Location: LEC Training Rooms 1+2, Lancaster Environment Centre, Lancaster University, LA1 4YQ



Developing Brownfield sites represents a complex issue for Local Authorities as they balance the need for regeneration and its economic benefit with potential risks associated with land affected by historic contamination. The possibility and impact of flooding is a key consideration for effective decision making across these sites. This meeting will bring together consultants, academics and regulators to consider the changing face of flood risk assessment in the context of land redevelopment. Throughout the day there will be a focus on practical applications and case studies as follows:

- The Flood and Water Management Act brings with it new duties and requirements for regulators and practitioners. These will be described and explored in the context of land redevelopment;
- Looking forward, there is a need to incorporate uncertainty in hydrological predictions and flood risk. There will be an opportunity to influence the ongoing development of practical decision support Guidelines for best practice in this area;
- Increasingly, breach analysis is required for new developments and guidelines on this aspect of risk assessment will be presented using case studies from the north-west;
- The Cumbrian floods of 2009 were the worst in living memory in the north-west. The adequacy of existing hydrological and hydraulic models will be discussed and the rarity of the event considered.

The event is free to attend with sponsorship from the NERC-funded [Catchment Change Network \(CCN\)](#), the [North West Brownfield Regeneration Forum \(NWBRF\)](#) and [WSP Environment and Energy](#)

- 09.30-10.00 Registration and coffee
- 10.00-10.10 Chairman's welcome and introduction (Keith Beven, Lancaster Environment Centre)
- 10.10-10.45 **Iwan Lawton, Environment Agency and Andy Cameron, Lancashire County Council**
Floods and Water Management Act – duties and progress
- 10.45-11.05 **Simon Gilliland, Mouchel**
Issues with flooding at Brownfield sites - Mobilisation of contaminants within flood water
- 11.05-11.15 Q&A
- 11.15-11.45 Refreshment break
- 11.45-12.00 **Keith Beven, Lancaster Environment Centre**
Developing Guidelines for Flood Risk Mapping – Incorporating Uncertainty
- 12.00 12.20 **Keith Beven, Lancaster Environment Centre**
Discussion – developing decision support guidelines

- 12.20-12.50 **James Mead, Environment Agency**
Rotherham Renaissance Flood Alleviation Scheme – a partnership project designed to protect existing riverside assets in tandem with the regeneration of Brownfield sites
- 12.50- 13.40 Buffet Lunch
- 13.40-14.10 **Phil Raynor, Capita Symonds**
The North-West Breach scenario project- modelling knowns, unknowns and effects.
- 14.10-14.15 Q&A
- 14.15-14.45 **Sam Wingfield, JBA Consulting**
Sustainable development following the Cumbrian floods in 2009 and Brownfield land and flooding issues at Stockton
- 14.45- 15.10 *Closing discussion*
- 15.15 Close



Refreshment breaks have been kindly sponsored by WSP

General Information

For all event enquiries, please contact r.alcock@lancaster.ac.uk or 01524 510285

Event Location & Directions

- [Directions to the University](#)
- To find us on the Lancaster University campus, please see the [campus map](#) (the building is numbered 39) and the main entrance is on Library Avenue.
- All visitors must park in Visitor Parking Zones.
- The nearest parking for visitors to LEC can be found on [Farrer Avenue and Gillow Avenue](#).
- Please use the Pay & Display service (£5 for the day)
- All visitors should report to the reception desk in the main LEC atrium.

Location: LEC Training Rooms, Gordon Manley Building, Lancaster Environment Centre, Lancaster University,

LAI 4YQ