



The Hydrogeology of Superficial Deposits

1st - 2nd May 2019

Burlington House, London

<https://www.hydrogroup.org.uk/hydrogeology-of-the-superficial-deposits/>



Day 1 (Weds 1st May 2019) – Programme

8.30 – 9.30	Registration (with refreshments)	
9.30 – 9.40	Welcome	
	Session 1: Geology / water resources	
9.40 – 10.10	<u>Keynote Speaker</u> Prof. Phil Gibbard (University of Cambridge)	"Geology and depositional environments of superficial deposits."
10.10 – 10.30	Dr. Andrew Farrant (British Geological Survey)	"Characterising superficial deposits through 3D mapping and modelling"
10.30 – 10.50	Simon Quinn (Wood plc)	"Recent ground investigations at Heathrow airport - geological characterisation and groundwater monitoring of Principal superficial aquifer"
10.50 – 11.10	Penny Jenkinson & Deborah Thomas (Envireau Water)	"Sand and Gravel Aquifers – The Importance of Knowing What You've Got"
11.10 - 11.30	Coffee break	
11.30 – 11.50	Kate Norman (Dŵr Cymru Welsh Water)	"The importance and challenges of superficial deposits for Public Water Supply for Dŵr Cymru Welsh Water"
11.50 – 12.20	Dr. Mike Rivett (Uni of Strathclyde)	"Alluvial valley aquifer systems in rural Malawi: threats to a vital resource"
12.20 – 12.40	Dr. Mal Graham (Atkins)	"Projections of future recharge and assessing their impact on superficial aquifers"
12.40 – 13.40	Lunch	
	Session 2: Flood management / wetland & hydroecology support	
13.40 – 14.10	<u>Keynote Speaker</u> Jon Hollis (Environment Agency)	"The £15m Natural Flood Management Programme and how it is teaching more than just NFM outcomes."
14.10 – 14.30	Dr. Mark Whiteman (Environment Agency)	"Working with Natural Processes – why geology matters"
14.30 – 14.50	Mike Streetley (Stantec)	"The significance of groundwater in superficial deposits for catchment hydrology"
14.50 – 15.10	David Macdonald (BGS) / Chris Jackson (BGS) / Andrew Wade (Uni of Reading)	"Persistence of flooding on permeable lowland floodplains: the role of shallow groundwater and surface infiltration"
15.10 - 15.30	Coffee break	
15.30 – 15.50	Anna Wetherell (Natural England)	"Considering the 'Top Layer' – superficial deposits and wetland habitats"
15.50 – 16.10	Alice Davis (JBA)	"Flag Fen: The archaeological significance of superficial aquifer groundwater levels".
16.10 – 16.30	Alex Jones (JBA)	"Hydrogeological conceptualisation of a tufa spring, Dún Laoghaire-Rathdown, Ireland"
16.30 – 17.00	Day 1 – closing session	
17.00 – 18.30	Wine reception	



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Day 2 (Thurs 2nd May 2019) – Programme

8.30 – 9.30	Registration (with refreshments)	
9.30 – 9.40	Welcome	
	Session 1: Anthropogenic physical influences	
9.40 – 10.10	<u>Keynote Speaker</u> John Davis (Geotechnical Consulting Group)	"Crossrail: Keeping water out, letting water in."
10.10 – 10.30	Dr. Martin Preene (Martin Preene Consulting)	"Groundwater problems for construction in superficial deposits"
10.30 – 10.50	Claire Howarth / Eleanor Mathewson (Mott MacDonald)	" Predicting and responding to the challenges of heterogeneous superficial deposit dewatering during shaft construction in Blackpool "
10.50 – 11.10	Dr Toby Roberts / Dr Gary Holmes (WJ Groundwater)	" Groundwater control for construction works in River Terrace Deposits "
11.10 - 11.30	Coffee break	
11.30 – 11.50	Mike Plimmer (Geotechnical and Environmental Associates)	"Anthropic influence on groundwater and contaminant flow through superficial deposits – three case studies exploring hydraulic barriers, preferential flow paths and hydraulic containment in pre- and post-development site conditions"
11.50 – 12.20	Duncan Wardrop (Chair of Water Group of Mineral Products Association)	"Superficial deposits - fundamentally important industry: Implications of recent water legislation for quarrying "
12.20 – 12.40	Richard Mitchener (EDF Energy)	"It's not just flow. The importance of groundwater chemistry in superficial quarry applications: a case study"
12.40 – 13.35	Lunch	
	Session 2: Contaminated Land	
13.35 – 14.05	<u>Keynote Speaker</u> Prof. Paul Nathanail (Land Quality Management)	"The role of sedimentology, stratigraphy and structure in contaminant fate and transport through Superficial Deposits."
14.05 – 14.30	Dr. Rick McGregor (ISRL) & Gareth Leonard (Regenesis)	" PFAS Contamination: Emerging Contaminants and a Developing In Situ Remediation Approach "
14.30 – 14.50	John Henegan (Atkins)	"Challenges of characterising a complex superficial aquifer on a nuclear licensed site"
14.50 – 15.10	Jane Oakeshott (ERM)	" Recharge affecting groundwater flow and plume migration in superficial deposits "
15.10 - 15.30	Coffee break	
15.30 – 15.50	Debbie Wilkinson (South East Water)	"Chlorinated solvent movement in River Terrace Gravels"
15.50 – 16.10	Kevin Leahy (ERM)	" Using Advanced Site Characterisation Techniques to Understand TCE Migration in a Superficial Deposit ".
16.10 – 16.30	Gary Weathall (Geosyntec)	" Looking beyond the superficial: lessons learned from a highly characterized DNAPL Source Zone "
16.30 – 17.00	Day 2 – closing session	