

The Blue-Green Path to Urban Flood Resilience

Thursday 7th March 2019

Newcastle Centre for Life, Times Square,
Newcastle upon Tyne NE1 4EP

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WATER** *living water*

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Increasing audience interaction via **Slido**

Today we will be using a simple audience interaction platform called **Slido** to enable you to select questions for our morning speakers to answer.

Slido allows you to select which of our questions you are most interested in, and add your own questions. You will also be able to up-vote the questions of other participants. The more votes a question has, the more likely it will be answered.

To join:

1. Connect to Life Wi-Fi (no password required)
2. Open the web browser
3. Go to www.slido.com and enter the event code #UFR2019



Morning Programme

09.00 Registration, Refreshments and Exhibition

Event host: Kit England (Climate Ready Clyde Project Manager, SNIFFER)

09.30 Opening remarks

CLlr Nick Kemp (Cabinet Member for the Environment, Newcastle City Council)

09.45 Our Journey along the Blue-Green Path to Urban Flood Resilience

Colin Thorne (Professor of Physical Geography, University of Nottingham)

09.50 The Opportunities and Challenges for partnership delivery of Blue Green Infrastructure

Richard Warneford (Waste Water Director, Northumbrian Water) and Leila Huntington (NE Area Flood Risk Manager, Environment Agency)

10.10 Exploring City Water Resilience

Justin Abbott (Global Water Skills Leader, Arup)

10.20 Boosting multi-functional Blue-Green infrastructure through the planning system

James Harris (Policy and Networks Manager, Royal Town Planning Institute)

10.30 Delivering Urban Flood resilience using digital and blue-green approaches - some global and local examples

Fola Ogunyoye (Technical Director Water Europe, Royal HaskoningDHV, and co-Chair of the Urban Flood Resilience Strategic Advisory Board)

10.40 Q & A

11.00 Refreshments and Exhibitions

11.30 A Public Health Perspective on Blue-Green Infrastructure

Eugene Milne (Director of Public Health, Newcastle City Council)

11.40 Newcastle University's Approach to Flood Management

Iain Garfield (Director of Estates & Facilities, Newcastle University)

11.55 Blue-Green Infrastructure, a Nordic Perspective

Ola Holmstrom (Director of Water and Asset Management for the UK, Sweco)

12.05 Partners and Participation: Regional examples of Blue-Green infrastructure development

Lisa Stephenson (Business Development Manager, Groundwork NE & Cumbria)

12.15 Community-Based SuDS

Gwen Rhodes (Principal Engineer, Stantec)

12.25 Q & A

12.40 Launch of the **2019 Newcastle Declaration on Blue and Green Infrastructure**

12.50 Lunch and Exhibitions

Afternoon Programme

13.45 Parallel Session

	Stream 1: Grainger Suite	Stream 2: Darwin suite
	Chair: Rob Carr (Catchment Coordinator (Tyne Catchment), Environment Agency)	Chair: Oliver Heidrich (Lecturer in Civil Engineering, Newcastle University)
13.45	Revealing hidden perceptions of SuDS through Implicit Association Tests Emily O'Donnell (University of Nottingham)	Interoperable flood management in Newcastle: exploring needs, opportunities and challenges Kim Vercruyse and David Dawson (University of Leeds)
14.05	From Rainwater Harvesting to Rainwater Management Systems Sangaralingam Ahilan and David Butler (University of Exeter)	Retrofitting, monitoring and modelling SUDS: Case Studies from Scotland Vladimir Krivtsov (Heriot-Watt University)
14.25	Flood modelling of Newcastle: getting the pipes and infiltration right Stephen Birkinshaw (Newcastle University)	An adaptation pathways approach to deliver multiple benefits of Blue-Green Infrastructure in an uncertain future: insights from London Borough of Sutton Leon Kapetas (University of Cambridge)
14.45	Blue-Green Infrastructure Community Engagement Frameworks: A proposed template and case study learnings Glyn Everett (University of the West of England)	Implementing SuDS through the planning system: barriers and opportunities Tudorel Vilcan and Karen Potter (The Open University)
15.05	Q and A	

15.25 Refreshments and Exhibitions

15.45 Plenary session

15.45 Developing and implementing Blue-Green visions through Learning and Action Alliances (LAAs): examples from the Newcastle and Ebbsfleet LAAs

Emily O'Donnell and Tudor Vilcan (Urban Flood Resilience project), Darren Varley (Principal Engineer, Newcastle City Council), Louise Petrie (Senior Surveyor, Newcastle University), Simon Harrison (Head of Design, Ebbsfleet Development Corporation), Paul Kent (Environment and Wastewater Strategy Manager, Southern Water)

16.15 Reflections from the Day

Kit England (Climate Ready Clyde Project Manager, SNIFFER)

16.30 Close and opportunities for further networking

Exhibitions and/or delegate pack contribution

- Arup
- Groundwork NE & Cumbria
- Northumbrian Water
- Ricardo Energy and Environment
- Royal HaskoningDHV
- Stantec
- Sweco
- The National Green Infrastructure Facility

Please see our website for further information including speaker biographies and the Urban Flood Resilience Consortium's Key Project Outputs report:
www.urbanfloodresilience.ac.uk/events-news-and-blog/newcastle-dissemination-event-2019.aspx

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Delegate List

First name	Surname	Organisation	Role
Justin	Abbott	Arup	Global Water Skills Leader
Sangaralingam	Ahilan	University of Exeter	Research Fellow
Lindsey	Air	University of Nottingham	Research Project Administrator
John	Alexander	Aquobex	Managing Director
Taryn	Al-mashgari	Environment Agency	Community engagement officer, flood resilience
Geraldine	Angus	Sweco	Operations Manager
Alero	Arenyeka	Environment agency	Graduate civil engineer
Scott	Arthur	Heriot-Watt University	Professor
Andras	Bardossy	Newcastle University	Professor of Earth Systems Modelling
Katharine	Birdsall	Environment Agency	Catchment Co-ordinator
Steve	Birkinshaw	Newcastle University	Researcher
Alex	Bouas	Environment Agency	Civil Engineer
Hayley	Bowman	Environment Agency	Senior scientist
Paul	Brookes	Lincolnshire County Council	Flood Risk Manager
Emma	Brown	Yorkshire Water	Resilience Portfolio Manager
Peter	Burrows	Gateshead Council	Development Engineer (SuDS)
David	Butler	University of Exeter	Director, Centre for Water Systems
Robert	Carr	Environment Agency	Catchment Coordinator (Tyne)
David	Charlton	Northumbrian Water	Project Manager
Jessica	Clay	AECOM	Graduate Water Consultant
Alison	Convery	ethical partnership	Architectural Technician
Clair	Cooper	Durham University	PhD Student
David	Dawson	University of Leeds	Lecturer in transport resilience
Clare	Deasy	Northumbrian Water	Catchment Coordinator
Cat	Dixon	Arup	Environmental Consultant
Katherine	Dobson	Northumbrian Water	Planning Team Leader
Peter	Drake	Water Industry Forum	CEO
Julie-Ann	Dutton	Department for Infrastructure - Water and Drainage Policy	Head of Environment Team
Kit	England	Climate Ready Clyde	Manager
Glyn	Everett	University of the West of England	Research Fellow
Emma	Farr	Gateshead Council	Senior Landscape Architect
Richard	Fenner	Cambridge University	Professor of Engineering Sustainability
James	Franklin	Sweco	Senior Flood Modeller
Nick	Fraser	Sweco UK Ltd	Operations Manager
Iain	Garfield	Newcastle University	Director of Estates & Facilities
Dave	Gowans	Sweco	Technical Manager
Lyndsey	Hall	Redcar and Cleveland council	Planner

Les	Hall	Northumbrian Water	New Developer Services Manager
Michael	Hanlon	Patric Parsons	Regional Director
George	Hare	Stantec	Technical Director
James	Harris	Royal Town Planning Institute	Policy and Networks Manager
Simon	Harrison	Ebbsfleet Development Corporation	Head of Design
Oliver	Heidrich	Newcastle University	Lecturer
Paul	Hendy	Carlisle Flood Recovery	Recovery Operations
David	Hetherington	Arup	Global Water Research Manager
Nigel	Hill	Redcar and Cleveland Council	Drainage Engineer
Emily	Hill	Arup	Environmental Consultant
Frances	Hinton		
Ola	Holmstrom	Sweco	Director, Water and Asset Management
Peter	Holt	Arup	Senior Engineer
Rachel	Howlett	Central Scotland Green Network Trust	Glasgow Raingardens Project Officer
Graeme	Hull	Environment Agency	Tees Catchment Coordinator
Leah	Humphries	Yorkshire Water	Flood Risk and Engagement Engineer
Leila	Huntington	Environment Agency	Area Flood Risk Manager
Kirstie	Hutchinson	Wear Rivers Trust	Finance and Business Development Manager
Nicola	Hyslop	Environment Agency	Advisor
Catherine	Johnson	Yorkshire Water	Resilience Portfolio Manager
Leon	Kapetas	University of Cambridge	Research Associate
Mike	Kay	Redcar and Cleveland council	Drainage Engineer
Nick	Kemp	Newcastle City Council	Cabinet member for the Environment
Laura	Kennedy	Northumbrian Water	Technical Policy Advisor
Paul	Kent	Southern Water	Environment and Wastewater Strategy Manager
Chris	Kilsby	Newcastle University	Professor of Hydrology and Climate Change
Lee	Knox	Newcastle City Council	Flooding Engineer
Vladimir	Krivtsov	Heriot-Watt University	RA
Jessica	Lamond	University of the West of England	Professor
Elizabeth	Lawson	University of Exeter/NWL	Research Engineer
Steven	Lish	KMS partners	Strategic Account Partner
Rachel	Locke		
Andy	Mace	Arup	Associate Director
Matt	Machouki	Groundwork	landscape architect
Daniel	Magee	Environment Agency	Graduate Engineer
Jenny	Mant	Ricardo Energy and Environment	Head of Water
Ian	McCall	Leeds City Council	FRM Engineer
Jo	McDonnell	Northumbrian Water	Placement student
Molly	McKenzie	University of Leeds	PhD student
Joanna	Milburn	Northumbrian Water	Internship
Eugene	Milne	Newcastle City Council	Director of Public Health

Marc	Naura	River Restoration Centre	Science and Technical Manager
Steena	Nasapen-Watson	Northumbrian Water	Sustainable Sewerage Manager
Emily	O'Donnell	University of Nottingham	Research Fellow
Greg	O'Donnell	Newcastle University	Researcher
Fola	Ogunyoye	Royal HaskoningDHV	Technical Director
Oluwayemi	Oladunjoye	Birmingham City University	Researcher
Ryan	O'Sullivan	Southern Water	Wastewater Strategic Planning Manager
Mark	Paterson	Environment Agency	Graduate Engineer
Martin	Pearse	3E Consulting Engineers	Technical Director
Keith	Perry	Polypipe Middle East FZE	Technical Director
		Polypipe Middle East FZE	Technical Director
Louise	Petrie	Newcastle University	Senior Surveyor
Taymar	Pitman	NA	MSc student in Sustainability and Adaptation
Karen	Potter	The Open University	Research Fellow
Tom	Rathmell	Sweco	Operations Manager
Joe	Reed	Environment Agency	Graduate Engineer
Gwen	Rhodes	Stantec	Principal Civil Engineer
John	Robinson	Newcastle City Council	Principal Engineer
Craig	Robson	Patric Parsons	Principal engineer
Jo	Rogers	ethical partnership	Planner
Clare	Ross	Gateshead Council	Natural Environment Projects Officer
Philip	Rothwell	Northumbria RFCC	Chair
Venus	Sanchez	Newcastle City Council	Engineer
Lesley	Silvera	Groundwork NE & Cumbria	Community Project Manager
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Martin	Spiers	RPS	Senior Engineer
James	Stanton	AECOM	Senior Engineer
Eleanor	Starkey	Newcastle University	Research Associate (Hydrology)
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Claire	Stewart	Sweco	Associate Landscape Architect
Ross	Stirling	Newcastle University	Lecturer in Geotechnical Infrastructure
Ian	Tallentire	Bellway	Technical Director
Carrie	Taylor	Northumbrian Water	New Development Planner
Colin	Thorne	Nottingham University	Chair of Physical Geography
Laura	Tozer	Durham University	Post Doctoral Research Associate
Darren	Varley	Newcastle City Council	Principal Engineer
Kim	Vercruyssen	University of Leeds	Researcher
Tudorel	Vilcan	Open University	Research assistant
Miquel	Vinyals Paton	Arup	Senior Engineer
Louise	Walker	CIRIA	Project Manager
Claire	Walsh	Newcastle University	Lecturer
Tom	Wardley	Arup	Environmental Consultant
Richard	Warneford	Northumbrian Water	Wastewater Director
Ross	Whitelaw	Royal HaskoningDHV	Principal Engineer
Stuart	Wightman	Department for Infrastructure	Living with Water Programme Manager
David	Wilson	Catalize Ltd	Director

Gayle	Wilson	Gateshead Council	Planning Officer
Anil	Yildiz	National Green Infrastructure Facility	Research Associate
James	Young	Gateshead Council	FRM Team Leader