
Session 2

Conference Theatre

Natural Flood Management in Practice

Conference Suite 2

Evidencing Change

Conference Suite 3

Barriers

CHAIR: *Alastair Driver (University of Exeter)*

CHAIR: *David Harper (Welland Rivers Trust)*

CHAIR: *David Bunt (the Sustainable Eel Group)*

13:35

[NFM: delivering multiple benefits through Flood Risk Management](#)

Alex Fraser (*Jacobs*) & Sim Reaney (*Durham University*)

[Evaluating river restoration techniques: settlement ponds in the Afon Eden catchment, North Wales](#)

Sue Hearn (*Natural Resources Wales*) & Heather Marples (*Bangor University*)

Novel design, installation and assessment of coarse fish passage using Low Cost Baffle (LCB) solution at a gauging station

Toby Hull (*South East Rivers Trust*)

15 mins

13:50

[Reducing flood risk through Green Infrastructure on the River Soar, Leicester](#)

Alex McDonald (*Environment Agency*)

[The Rottal Burn restoration project: collaborative evidence and impact from River Champions, research collaborators \(and lots of student projects\)](#)

Rebecca Wade (*Abertay University*) & Kelly Ann Dempsey (*River South Esk Catchment Partnership*)

[The impact of weir removal on the foraging and activity of British Bats](#)

Sarah Scott (*Environment Agency*)

15 mins

14:05

Discussion

Discussion

Discussion

10 mins

Session 2 – continued...

14:15	<u>Prioritising restoration and NFM in the River Peffery, Scotland</u> Emma Lewin (<i>Jacobs</i>)	<u>Implementing Flood Risk Management and river restoration to conserve instream habitat for brown trout</u> Natalie Angelopoulos (<i>University of Hull</i>)	New guide to fish passage and screening at Flood Risk Management and land drainage structures based on practical experience Omar Sholi (<i>AECOM</i>)	15 mins
14:30	Do we need an NFM reality check? Eric Gillies (<i>cbec eco-engineering</i>)	Engaging with rivers in four dimensions Lucy Shuker (<i>Thames 21/Cartographer Studios Ltd</i>)	<u>Approaching 10 years on – shedding light on stream daylighting around the world</u> Adam Broadhead (<i>Arup</i>)	15 mins
14:45	Discussion	Discussion	Discussion	10 mins

14:55	POSTER SESSION in the Exhibition Hall			45 mins
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Session 3

Conference Theatre

Working in Partnership

Conference Suite 2

Managing Sediment and Pollutants

Conference Suite 3

Novel ways of using Data

CHAIR: *David Hetherington (Arup)*

CHAIR: *Jo Cullis (Jacobs)*

CHAIR: *Judy England (Environment Agency)*

15:40	<p><u>Better together – how working in partnership has achieved so much more in Telford’s urban catchment</u> Guy Pluckwell (<i>Environment Agency</i>)</p>	<p>Contaminated sediment: assessing risks in UK rivers Ian Dennis (<i>Royal HaskoningDHV</i>)</p>	<p><u>Historical studies for informing sustainable river restoration strategies</u> Jennifer Cox (<i>Ricardo/University of Portsmouth</i>)</p>	15 mins
15:55	<p>Towards a wilder River Crane: benefits of partnership delivery Tom White (<i>London Wildlife Trust/ Groundwork South</i>)</p>	<p><u>Managing accumulated sediments: Beneficial Use of Dredged Material (BuDM) and Working with Nature (WwN)</u> Will Manning (<i>Exo Environmental</i>)</p>	<p>Simple mapping for flood risk and storage Marc Naura (<i>River Restoration Centre</i>)</p>	15 mins
16:10	<p>Discussion</p>	<p>Discussion</p>	<p>Discussion</p>	10 mins

Session 3 – continued...

16:20	Living Heritage of the River Don Rachel Walker (<i>Don Catchment Rivers Trust</i>)	Silt management can be easy...why are so many people getting it wrong? Richard Haine (<i>frog environmental</i>)	CatMan: a Natural Capital framework based on whole catchment modelling of land use, asset improvement, diffuse pollution and flood risk Rachelle Ngai (<i>JBA Consulting</i>)	15 mins
16:35	‘Smarter Water Catchments’ in the Evenlode – working in partnership to reduce phosphorus in rivers Helena Soteriou (<i>Thames Water</i>)	<u>Partnership working in the Sussex Ouse catchment</u> Simon Lohrey (<i>South East Water</i>) & Emily Long (<i>National Trust</i>)	<u>Community modelling – shaping the future of London rivers</u> Rosie Nelson (<i>Thames 21</i>)	15 mins
16:50	Discussion	Discussion	Discussion	10 mins
17:00	SHORT BREAK TO MOVE TO KEYNOTE SESSION			10 mins

Session 4
Conference Theatre

CHAIR: *Fiona Bowles (River Restoration Centre)*

17:10	Accounting for the environment in catchment management Paul Leinster (<i>Cranfield University</i>)	25 mins
17:35	Questions and reflections	20 mins
17:55	Poster competition prizes, final announcements and close Martin Janes (<i>River Restoration Centre</i>)	5 mins
18:00	END OF DAY 1	



19:30 – PRE-DINNER DRINKS

Entrance Foyer

&

20:00 – UK RIVER PRIZE AWARDS DINNER

Banqueting Suite

2018 UK RIVER PRIZE FINALISTS

LOVE YOUR RIVER TELFORD	HILLS TO LEVELS	CONNSWATER COMMUNITY GREENWAY	TAME VALLEY WETLANDS LANDSCAPE PARTNERSHIP
<i>PAGE 25</i>	<i>PAGE 26</i>	<i>PAGE 27</i>	<i>PAGE 28</i>

AND

'RIVER CHAMPIONS'

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DAY 2:

--- WEDNESDAY 25TH APRIL ---

Registration opens at 8:30am

Session 5

9:00

PRE-BOOKED SITE VISIT OR WORKSHOP

3 h 30 min

Conference Suite 3

Workshop A:

A Focus on Floodplains

Conference Suite 4

Workshop B:

Large Wood in Rivers

Facilitator: Emma Rothero (*Floodplain Meadows Partnership*) & Ann Skinner

Facilitator: Angela Gurnell (*Queen Mary University of London*)

This workshop will explore the concepts, potential and knowledge required for large scale, innovative river AND floodplain restoration for multiple benefits. We will look at the history and benefits of different floodplain habitats, tease out the meaning behind the language used in floodplain restoration and investigate skills gaps and mechanisms for unlocking the exciting potential for large scale river/floodplain restoration. Presentations will cover land use in English floodplains, the benefits floodplain habitats provide, and some case study examples of floodplain restoration.

The workshop will look at the benefits of using large wood in rivers, a technique which has become integral in many river restoration schemes. Several studies have shown how introducing wood can impact river hydrology, geomorphology and ecology. This workshop will discuss the benefits of large wood through sharing best-practice ideas, and determine the role of large wood in ecosystem functioning.

Key players in floodplain degradation

Seb Bentley & George Heritage (*AECOM*)

Multi-objective floodplain restoration from California, USA

Chris Bowles (*cbec eco-engineering*)

High impact river and floodplain restoration of the Hampshire Avon near Upavon

Martijn Antheunisse (*Wiltshire Wildlife Trust*)

The influence of large woody dams on sediment dynamics

Matthew McParland (*University of Liverpool*)

The impact of wood on benthic and hyporheic invertebrates

Chiara Magliozzi (*Cranfield University*)

Practical aspects of using large wood in river restoration & channel management

David Holland (*Salix*)

Wood in river restoration and Natural Flood Management: emulating natural river forms and processes

Angela Gurnell (*Queen Mary University of London*)

12:30

LUNCH

65 mins

Session 5

9:00

PRE-BOOKED SITE VISIT OR WORKSHOP continued...

3 h 30 min

Conference Suite 1

Workshop C:

River Restoration for Biodiversity

Conference Theatre

Workshop D:

Natural Capital and Ecosystem Services: Accounting for Benefits

Facilitator: Angus Tree (*Scottish Natural Heritage*)

This workshop will focus on the benefits and evidence for specific techniques for river restoration – how they improve the natural function of rivers and positively influence the ecology of that system for its biological communities and associated habitat.

We will set out progress on this IUCN branded UK and Republic of Ireland task since 2013. Two short presentations will outline the importance of understanding historic geomorphic changes to inform natural process based restoration decisions; and, the findings of recent evidence reviews on the justification for commonly implemented river restoration techniques. We will then discuss the experience of the audience in relation to techniques where the evidence is deemed to be strong, and how this might be strengthened further. We will also present and discuss the nine less well understood techniques that the IUCN steering group has chosen to focus its efforts to raise significant funds to implement demonstration and evidence projects.

There will also be two short presentations on gathering evidence and analysing the results in a robust way, focused on a single key species; and as applied to all projects whatever the focus or scale.

[IUCN NCUK river restoration and biodiversity project](#)

Angus Tree (*Scottish Natural Heritage*)

[Restoring Freshwater Mussel rivers](#)

Ceri Gibson (*Freshwater Biological Association*)

[Understanding historic change and using natural processes to inform future decision making](#)

Matthew Hemsworth (*JBA Consulting*)

Facilitator: Jenny Mant (*Ricardo*)

There are a plethora of approaches to Natural Capital Accounting and ecosystem service benefit assessment along with a growing set of open source data sets that can be used to help support benefits assessments. Whilst it may on the surface appear 'relatively' easy to speculate benefits, trying to identify which is the best approach to use for a specific scheme is not always clear. Similarly handling and understanding different spatial scales and ascertaining the extent of benefit can add the complexity.

This workshop will aim to discuss the needs of different sectors in terms of understanding natural capital. It will provide a forum to discuss different approaches, assess how we can apply financial values to restoration projects and identify how NCA and ecosystem service assessment is valuable to a range of stakeholders.

Monetising environmental benefits – three case studies

Steve Maslen (*JBA Consulting*)

What have wetlands ever done for us?

David Gasca (*Atkins*)

12:30

LUNCH

65 mins

Session 5

9:00

PRE-BOOKED SITE VISIT OR WORKSHOP continued...

3 h 30 min

Conference Suite 2

Workshop E:

Managing Sediment already in Rivers

Facilitators: Simon Whitton (*APEM Limited*) & Di Hammond (*Affinity Water*)

The mobilisation of fine sediment in watercourses creates a number of issues and is often difficult to manage. The costs of removing fine sediment are often substantial and ever tightening waste regulations mean that it is becoming harder to beneficially use dredged material.

Following on from last year's successful workshop on sediment sources and pathways, this workshop will focus on how to deal with sediment that is already in the river system.

[Ways of reducing the amount of fine sediment entering the channel](#)

Duncan Ferguson (*Spey District Fishery Board*)

[Methods for dealing with excavated silt](#)

Ian Bailey (*Kalex Limited*)

[Dredged Material – Disposal or Reuse](#)

Bill Gush (*Land & Water*)

[A project planning tool for re-profiling and de-silting activities](#)

Leela O'Dea & Richard Haine (*frog environmental*)

[Project planning tool](#)

Site Visit 1:

Titchfield Park & Day Brook

Facilitator: Claire Sambridge (*Nottingham Wildlife Trust*), Lee Sycamore (*Ashfield District Council*) & Rebecca Brunt (*Environment Agency*)

This will be a two part site visit to a couple of urban projects in Nottingham. We will visit Titchfield Park where a small brook has been broken out of a concrete channel. Here, good stakeholder and community engagement was essential for the project to go ahead. We will also visit Day Brook where comparisons can be made between habitat feature enhancements, and a site further upstream where improvements have been made to take the brook out of a straightened channel.

[Wetland Landscapes for All Leaflet](#)

Site Visit 2:

Croxall Lakes

Facilitator: Nick Mott (*Staffordshire Wildlife Trust*) & Andrew Crawford (*Environment Agency*)

Croxall Lakes sits at the confluence of 3 rivers in the Midlands – the Tame, Trent and Mease. The aim of the Croxall Lakes site was to restore some of the habitats and wildlife, including river island restoration.

[Handouts](#)

[Presentation Slide Handouts](#)

12:30

LUNCH

65 mins

Session 6			
	<u>Conference Theatre</u> Natural Processes and Morphological Adjustment	<u>Conference Suite 2</u> Approaches to Planning and Implementation	<u>Conference Suite 3</u> Catchment Scale Thinking
	CHAIR: <i>Oliver Lowe (Natural Resources Wales)</i>	CHAIR: <i>Will Bond (Alaska Environmental Contracting Ltd)</i>	CHAIR: <i>Phil Boon (RRC Board/Freshwater Biological Association)</i>
13:35	<p><u>The importance of decadal scale morphological change in flood risk management – the Cashen Estuary, County Kerry</u> Claire Barrett-Mold (<i>Black & Veatch</i>)</p>	<p>River restoration wipeout Simon Whitton (<i>APEM Limited</i>) & Di Hammond (<i>Affinity Water</i>)</p>	<p>Improving natural functioning at the catchment scale Mark Philips (<i>Natural England</i>)</p> <p style="text-align: right;">15 mins</p>
13:50	<p><u>Let the river erode! Giving a gravel-bed river back its freedom space...what do you get?</u> Richard Williams (<i>University of Glasgow</i>)</p>	<p><u>Alien invaders ahead! – Are you watching out for them?</u> Phil Aldous (<i>Thomson Ecology Ltd</i>)</p>	<p>Riverlands – exploring people’s connections to rivers as a catalyst for change Richard Higgs (<i>National Trust</i>)</p> <p style="text-align: right;">15 mins</p>
14:05	Discussion.	Discussion.	Discussion. 10 mins

Session 6 – continued...

14:15	<p>Sediment and managed naturalisation: results from the monitoring of Swindale Beck George Heritage (<i>AECOM</i>)</p>	<p><u>South Calder Water – challenges in urban river restoration</u> Chris Pittner (<i>Peter Brett Associates</i>)</p>	<p>Water Friendly Farming: engaging farmers in a catchment-scale research demonstration project Jeremy Biggs (<i>Freshwater Habitats Trust</i>)</p>	15 mins
14:30	<p><u>How do we properly implement the process-based river restoration approach?</u> Hamish Moir (<i>cbec eco-engineering</i>)</p>	<p>Erosion risk screening in engineering design on major infrastructure projects Helena Parsons (<i>Jacobs</i>)</p>	<p>Network topology: the “missing link” in understanding catchment controls on instream habitats? Eleanore Heasley (<i>Kings College London</i>)</p>	15 mins
14:45	Discussion	Discussion	Discussion	10 mins
14:55	MOVE TO GRAND FINALE!			10 mins

Session 7
Conference Theatre

CHAIR: *Martin Janes (River Restoration Centre)*

15:05	<u>Incised lowland sand-bed streams in the Netherlands</u> Christian Huising & Maarten Veldhuis (<i>Waterboard Vallei en Veluwe</i>)	15 mins
15:20	<u>Recreating anastomosing streams to restore channel-floodplain connectivity and recover lost habitats and ecosystem services</u> Colin Thorne (<i>University of Nottingham</i>)	15 mins
15:35	<u>Restoring UK catchment scale biodiversity – rivers, lakes, ponds and wetlands</u> Stewart Clarke (<i>National Trust</i>)	15 mins
15:50	Questions, thoughts and parting insights	30 mins
16:30	END OF CONFERENCE <i>with tea and coffee</i>	
