



# RIVER RESTORATION CENTRE 16<sup>TH</sup> ANNUAL NETWORK CONFERENCE

*People and Process-Based River Management: Restoring River Processes; Natural Flood Management; Healthy Catchments*

19th and 20th May 2015 – Whittlebury Hall Hotel & Spa, Northamptonshire

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## PROGRAMME OF EVENTS

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### DAY 1: --- TUESDAY 19<sup>TH</sup> MAY ---

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08:30	REGISTRATION in the Hotel Reception Area REFRESHMENTS in Bentleys & Astons Suite	80 mins
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#### Brooklands Suite

09:50	Welcome and Announcements Martin Janes (RRC)	10 mins
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CHAIR: Kevin Skinner  
(Atkins)

10.00	<a href="#"><u>River Restoration Centre introduction</u></a> Fiona Bowles (RRC Chairman)	15 mins
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10.15	<a href="#"><u>Diagnosing the root causes of hydromorphological degradation and identifying sustainable management solutions</u></a> Robert Grabowski (Cranfield University)	15 mins
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10.30	<a href="#"><u>Floodplains: the forgotten and abused component of the fluvial system</u></a> George Heritage (AECOM)	15 mins
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10.45	<b>Discussion</b>	10 mins
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10:55	BREAK <i>with tea and coffee</i>	30 mins
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#### Session 1

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CHAIR: Glenn Maas  
(Environment Agency)

11:25	<a href="#"><u>Natural flood management – barriers to progress</u></a> Duncan Huggett (Environment Agency/MCIWEM)	15 mins
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11:40	<a href="#"><u>How to restore morphology and manage floods naturally</u></a> Shona McConnell (SEPA)	15 mins
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11:55	<a href="#"><u>The Catchment Restoration Fund – What have we achieved?</u></a> Jerry Gallop (Natural England)	15 mins
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12:10	<a href="#"><u>Implementing strategic river restoration plans in England</u></a> Jenny Wheeldon (Natural England/Environment Agency)	15 mins
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12:25	<b>Discussion</b>	15 mins
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12:40	LUNCH in Bentleys & Astons Suite	60 mins
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### Session 2

#### Brooklands Suite

The Catchment Restoration Fund

**CHAIR:** Peter King

*(Ouse & Adur Rivers Trust)*

#### Indianapolis

Natural Flood Management

**CHAIR:** Lydia Burgess-Gamble

*(Environment Agency)*

#### Monza

Restoring Designated Rivers

**CHAIR:** Phil Boon

*(Scottish Natural Heritage)*

13:40	<p><u><a href="#">River Worfe Restoration Initiative</a></u> Joseph Allaby (<i>APEM Ltd</i>)</p>	<p><u><a href="#">From Source to Sea: Sound bites from Holnicote</a></u> Steve Rose (<i>JBA Consulting</i>)</p>	<p><u><a href="#">‘Pearls in Peril’ LIFE + Nature – Improving freshwater pearl mussel habitat through restoration of natural processes</a></u> Kenneth MacDougall (<i>Envirocentre</i>)</p>	15 mins
13:55	<p><u><a href="#">Addressing Fish Passage on a Catchment Scale in an Urban Environment</a></u> Toby Hull (<i>South East Rivers Trust</i>)</p>	<p><u><a href="#">Flood alleviation through river restoration</a></u> Andy Palmer (<i>AECOM</i>)</p>	<p><u><a href="#">Volunteer delivered river restoration project on the Wylfe</a></u> Martijn Antheunisse (<i>Wiltshire Wildlife Trust</i>)</p>	15 mins
14:10	<p><b>Discussion.</b></p>	<p><b>Discussion.</b></p>	<p><b>Discussion.</b></p>	10 mins



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### Session 2 – continued...

14:20	<p><u><a href="#">A holistic approach to river restoration - restoring the Welland for wildlife and for people at Market Harborough</a></u> David Harper (<i>Welland Rivers Trust</i>)</p>	<p><u><a href="#">Rapid Evaluation of NFRM Measures: River Elwy case study</a></u> Cathryn Spence (<i>AECOM</i>) &amp; Jacques Sisson (<i>NRW</i>)</p>	<p><u><a href="#">Land use and river restoration in a predominantly rural catchment – lower River Wye SSSI</a></u> Ellie Phillips (<i>Jacobs</i>)</p>	15 mins
14:35	<p><u><a href="#">Experiences of restoring physical habitat with an artificial riffle</a></u> Jennifer Cox (<i>University of Portsmouth</i>)</p>	<p><u><a href="#">Holnicote – Exploring a PES approach</a></u> Sacha Rogers (<i>Penny Anderson</i>)</p>	<p><u><a href="#">Lower Woodsford river and floodplain enhancement</a></u> Alasdair Maxwell (<i>Environment Agency</i>) &amp; Jo Cullis (<i>Halcrow CH2M HILL</i>)</p>	15 mins
14:50	<b>Discussion.</b>	<b>Discussion.</b>	<b>Discussion.</b>	10 mins
15:00	<p>POSTER SESSION in Bentleys <i>with tea and coffee</i></p>			45 mins



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### Session 3

#### Indianapolis

Dealing with Weirs

**CHAIR:** Dan Alsop  
(*Dan Alsop Chartered Engineer*)

#### Brooklands Suite

Addressing Multiple Constraints

**CHAIR:** Sally German  
(*Arup*)

#### Monza

New Tools for River Restoration

**CHAIR:** Jo Cullis  
(*CH2M Hill (Halcrow)*)

15:45	<a href="#"><u>CIRIA Weirs Guide</u></a> Sebastian Bentley ( <i>JBA Consulting</i> )	<a href="#"><u>Constraints on fish passage easement in Rotherham</u></a> David Mould ( <i>JBA Consulting</i> )	<a href="#"><u>Advances in bank erosion modelling and application to river restoration</u></a> Victoria Janes ( <i>Cranfield University</i> )	15 mins
16:00	<a href="#"><u>Pont Aran – weir removal in a town centre</u></a> Jo Barlow ( <i>Black &amp; Veatch</i> ) & Oliver Lowe ( <i>Natural Resources Wales</i> )	<a href="#"><u>Restoring a contaminated ex-industrial river</u></a> Alan McCulloch ( <i>SEPA</i> )	<a href="#"><u>Rapid aerial survey: A useful new tool for river restorers and managers</u></a> Neil Entwistle ( <i>University of Salford</i> )	15 mins
16:15	<b>Working with landowners to deliver WFD objectives</b> Peter King ( <i>Ouse &amp; Adur Rivers Trust</i> ) & Gareth Williams ( <i>Environment Agency</i> )	<a href="#"><u>The Doe Lea - restoration in an agricultural and industrial catchment</u></a> Claire Barrett-Mold ( <i>Environment Agency</i> )	<a href="#"><u>Monitoring post-restoration morphology using structure-from-motion photogrammetry</u></a> Richard Williams ( <i>Aberystwyth University</i> )	15 mins
16:30	<b>Discussion.</b>	<b>Discussion.</b>	<b>Discussion.</b>	15 mins
16:45	SHORT BREAK TO MOVE TO FINAL JOINT SESSION			10 mins







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DAY 2:

--- WEDNESDAY 20<sup>TH</sup> MAY ---

Registration  
Opens at 8:30am

## Session 5

9:00

CHOICE OF SITE VISIT OR WORKSHOP

3 hours  
30 mins

### Indianapolis

#### **Workshop A:**

Citizen Science and Monitoring

### Monza

#### **Workshop B:**

Best Practice Channel Management

How to cost-effectively demonstrate the success of river restoration projects is a subject that has been discussed at previous river restoration conferences. With a more catchment focus on river restoration now being driven at the local community and river trust level, there is enthusiasm for carrying out citizen-science style monitoring. This workshop will provide examples of where such approaches have been completed, assess what these approaches are able to tell us, and evaluate how these increased data sources can, collectively, be used to establish river restoration trends.

#### [RiverSearch: Delivering river restoration through citizen science](#)

Jim Jones & Glen Skelton (*Surrey Wildlife Trust*)

#### [Engaging all ages in chalk stream restoration](#)

Ruth Craig (*Lincolnshire Chalk Streams Project*)

#### [Community-based monitoring for catchment management and restoration](#)

Eleanor Starkey (*Newcastle University*)

#### [The 'Citizen Crane' monitoring network](#)

Richard Haine (*Frog Environmental*)

#### [RiverEYE: A citizen science tool for whole catchment reporting](#)

Sarah Taigel (*University of East Anglia*)

Where, when and how should we manage our rivers? Through short introductory presentations and discussion sessions, the workshop will identify different scenarios of management and suitable intervention; what guidance exists to make decisions and who should make those decisions.

#### [The channel management handbook](#)

Phil Williamson (*Royal HaskoningDHV*)

#### **Rural river maintenance**

Rachael Hill (*Environment Agency*)

#### [Emergency dredging of the Somerset Levels – responsible riverworks at speed](#)

James Maclean (*Land & Water Services Ltd*)

12:30

LUNCH

65 mins



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**Session 5**

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9:00

CHOICE OF SITE VISIT OR WORKSHOP Continued

3 hours 30  
mins

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**Melbourne**  
**Workshop C:**

Managing Rivers with the Water Industry

Flows interact with sediments to help shape the physical characteristics of rivers. Impoundments and water abstraction reduce flows and impact negatively on habitat diversity and other functions such as the triggering of fish migration. This workshop will look at how we can mitigate against low flows and use restorative measures to lessen the impacts of water abstraction.

**Morphological measures to improve low flow environments**

Judy England (*Environment Agency*) & Sebastian Bentley (*JBA Consulting*)

**Addressing legacy infrastructure in rural catchments in the north west**

Junaid Patel (*United Utilities*)

**Reinstating hydro-morphological processes in a Heavily Modified Water Body**

Sally German (*Arup*)

**Use of river restoration to mitigate the impacts of impoundments: a process based approach in Yorkshire**

Irantzu Lexartza-Artza & Daniel Newton (*Arup*)

**Priory**  
**Workshop D:**

How to Best Assess Morphology and Physical Change

Rivers are dynamic systems and restoration works often trigger predictable morphological change. This workshop will discuss the tools we use to assess, monitor and evaluate morphological change and the results we expect from them.

**Fluvial Audit: An essential tool for all river related projects**

George Heritage (*AECOM*)

**Ecological evaluation of the 'Process Restoration' philosophy on the Allt Lorgy, Scotland**

Hamish Moir (*cbec eco-engineering*)

**Learning from monitoring river restoration in dynamic Cumbrian rivers**

Helen Reid (*Environment Agency*)

**Hydraulic modelling for river restoration on the Allt Lorgy, Scotland**

Eric Gillies (*cbec eco-engineering*)

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12:30

LUNCH

65  
mins

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### Session 5

9:00

CHOICE OF SITE VISIT OR WORKSHOP Continued

3 hours 30 mins

#### Luffield

#### **Workshop E:**

River Restoration and Biodiversity

#### **Site Visit:**

Ouse Valley Park Floodplain Forest & Cosgrove Weir Removal

This workshop builds upon an IUCN Expert Workshop (supported by SNH, RRC, EA, NE, NRW, OPW, RA, NIEA, SEPA, and IFI) held in November 2014 to summarise and discuss best practice in river restoration for supporting biodiversity, for enhancing ecosystem services and for developing a more consistent approach to the Habitats Directive, WFD and Floods Directive. The workshop will aim to share, discuss, and reach common position statements on our confidence in applying river restoration for biodiversity objectives. It will also explore proposals for demonstration projects and strategic restoration plans.

This is a chance to visit two very different sites and to interact with those that are directly involved in their restoration. The first site will be the Ouse Valley Park. Here 50 hectares of floodplain are being restored to create a network of habitats which include wet woodland, pools and channels. Following this, we will visit the Cosgrove Weir removal site on the River Tove. The failure of this weir provided an opportunity to improve channel conditions and help deliver WFD objectives.

This site visit will involve walking a distance of up to 2 miles

#### **The progress of river restoration in UK and Ireland**

Phil Boon (*Scottish Natural Heritage*)

#### **Towards a report on the current practice and future of river restoration**

Phil Boon (*Scottish Natural Heritage*)/Stephen Addy (*The James Hutton Institute*)

#### **[Thinking laterally: Floodplain meadows: a case for restoration](#)**

Emma Rothero (*Open University/Flood Plain Meadows Partnership*)

#### **Building consensus – position statements on a range of aspects of river restoration**

All

12:30

LUNCH

65 mins







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<b>Session 6</b>				
	<b><u>Brooklands Suite</u></b>	<b><u>Monza</u></b>	<b><u>Indianapolis</u></b>	
	Working with Urban Rivers	Monitoring: Effective Assessment	Partnership Delivery	
	<b>CHAIR:</b> Paul Chapman <i>(London Borough of Lewisham)</i>	<b>CHAIR:</b> Judy England <i>(Environment Agency)</i>	<b>CHAIR:</b> Karen Fisher <i>(Buckinghamshire County Council)</i>	
13:35	<a href="#"><u>The Sketchley Brook: An Example of Urban River Restoration</u></a> Daniel Allum <i>(BWB Consulting)</i>	<b>Restoration, conservation and resilience in lowland rivers</b> Murray Thompson <i>(University College London)</i>	<a href="#"><u>Sheffield model for sustainable investment</u></a> Helen Batt <i>(River Stewardship Company)</i> 15 mins	
13:50	<a href="#"><u>Urban Pocket Wetlands: A Biodiversity Offsetting Solution</u></a> Leela O'Dea <i>(Frog Environmental)</i>	<a href="#"><u>Lessons learned from monitoring the ecological outcomes of river rehabilitation works in the UK</u></a> Michelle Smith <i>(Hull International Fisheries Institute)</i>	<a href="#"><u>Maximising the value of large infrastructure projects – delivering river restoration as part of major capital works</u></a> Lyndon Baker <i>(Atkins)</i> 15 mins	
14:05	<a href="#"><u>Restoring Natural Processes in Wandle Park</u></a> Ian Dennis <i>(Royal HaskoningDHV)</i>	<a href="#"><u>Monitoring sediment and nutrient pollution on the Lid Brook</u></a> Simon Browning & Edward Lang <i>(Wavelength Environmental)</i>	<a href="#"><u>Ballymoney Riverside Park restoration: from boating lake to salmonid channel in three months</u></a> Gareth Greer <i>(Rivers Agency)</i> & John Kane <i>(DCAL Inland Fisheries)</i> 15 mins	
14.20	<b>Discussion.</b>	<b>Discussion.</b>	<b>Discussion.</b> 15 mins	
14.35	SHORT BREAK TO MOVE TO FINAL JOINT SESSION			10 mins



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**Session 7**

**Brooklands Suite**

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**CHAIR:** Nick Clifford  
*(King's College London)*

14:45	<b>Nene Valley Nature Improvement Area – Making space for nature</b> Jim Rouquette <i>(University of Northampton)</i>	15 mins
15:00	<b><u>Developing Lewisham's rivers</u></b> Paul Chapman <i>(London Borough of Lewisham)</i>	15 mins
15:15	<b>River restoration – Priorities for action</b> RRC	15 mins
15:30	<b>Discussion and Close.</b>	15 mins
15:45	<b>END OF CONFERENCE</b>	

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**REFRESHMENTS**  
*tea and coffee available*

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