

Understanding River Restoration Training Course – Module 2

RIVER RESTORATION: SCOPING, DESIGN AND INTEGRATED MONITORING

Day 1 – Tuesday 19th October 2010

9.30 Approaches to river restoration design

- This follows on from the end of workshop 1. First there will be a recap of the final classroom study from workshop 1. This will be followed by examples of how you might scope a restoration project and determine options. This will include the understanding of stakeholder issues and how this might affect design and the use of data to evaluate options.

Presenter: Karen Fisher (Independent Consultant)

Presentation 1 >>

Presentation 2 >>

10.45 Tea and Coffee

11.15 Presentation on Knepp Castle potential restoration scheme and on-site health and safety issues

Presenter: Charlie Smith (Environment Agency) and Karen Fisher (Independent Consultant)

11.45 Field excursion and on-site group scoping study project – River Adur

14.15 Return to class room for Lunch, tea/coffee

14.45 In groups to scope out favored options including sketch diagrams

15.30 Discussion about design challenges and what additional data you may need to collect (in groups)

16.00 – 16.30 Tea and Coffee

16.30 Getting it done-design challenges

What to we need to consider (to include discussion about project specification, tender evaluation, costing, health and safety, bill of quantities, landowner issues, EIA, CDM regulations etc)

Presenter: Andy Pepper (Independent Consultant)

Presentation >>

18.15 Any questions and format for second day

Day 2 – Wednesday 20th October 2010

9.00 A Consultant's view on restoration challenges

Presenter: Ian Dennis (Royal Haskoning)

Presentation >>

9.30 Objective setting and integrated project appraisal

Thinking about putting project appraisal into projects from beginning to end. Appropriate decision of objective setting and measurable targets. Use of appraisal not only to assess project success but also to understand what the future management requirements are and at over what time scale.

Presenters: Jenny Mant (River Restoration Centre) and Judy England (Environment Agency)

Presentation >>

10.30 Tea and Coffee

10.30 Presentation and on site field excursion with exercise

- Relate what was learnt on the previous day (design challenges for the Knepp Castle Project)
- Project appraisal – How would you set your objectives and what would you measure at this site?

Presenter: Jenny Mant (River Restoration Centre) and Judy England (Environment Agency)

13.45 leave site

14.15 Lunch

15.00 Feedback discussion from field excursion and presentations on group appraisal protocol

Presenter: Jenny Mant (River Restoration Centre)

15.50 Certificates of Attendance

16.00 Departure

Facilitators:

Jenny Mant

Jenny has worked for the River Restoration Centre for over 6 years and has a background in fluvial geomorphology. She has a wealth of technical experience about how to plan and deliver river restoration projects. She currently teaches MSc students at Cranfield University and supervises MSc students who are interested in river processes, management and restoration and has also been involved in delivering a range of workshops and training courses to a wide range of participants.

Andrew Pepper (RRC Board Member)

A chartered civil engineer with many years' drainage and river engineering experience in the UK And overseas, he set up ATPEC Ltd in 1991. His more recent work includes designing and supervising the construction of many small-scale river works including bank protection, bridges, and realignments. He has designed and supervised several river restoration schemes, including the Rye Brook in Surrey, the River Pinn at Hatch End and the River Cam near Cambridge. He has acted as project manager for many Environment Agency schemes, including most components of the Lower Colne Improvement Scheme. He carries out hydrological and hydraulic river modelling for his own projects and as a sub-consultant to others. He is a Supervising Engineer under the Reservoirs Act 1975.

Judy England

Dr Judy England is an aquatic ecologist with over 20 years experience. Judy completed her doctorate on the Ecological Appraisal of River Restoration Schemes and has been involved in the design and monitoring of numerous projects with the Environment Agency. She is currently the Environment Agency's adviser to the RRC for Ecology, Conservation and Fisheries.

Karen Fisher (RRC Board Member)

Karen has over 15 years of experience working on the hydrology and hydraulic aspects of river restoration projects. She is a civil engineer by background and has worked on a wide range, and scale, of river restoration, river flood management and research projects whilst working for HR Wallingford, Birmingham University and her own consultancy company. She has been involved throughout her career in teaching courses and workshops on hydraulics and hydrology and in more general engineering management teaching with the Open University.

Charlie Smith

Charlie Smith has worked for in a Fisheries, Recreation and Biodiversity Team within the Environment Agency for nearly 8 years. In her role as the technical specialist, she has been involved in river restoration and enhancement projects which have included Shopham Loop. Her role within these projects has varied and included providing technical advice, Environmental Impact Assessment, post project monitoring and project management. She is currently facing the challenges of river restoration on the River Adur, project managing the design and modelling phase of a flood plain restoration project.