

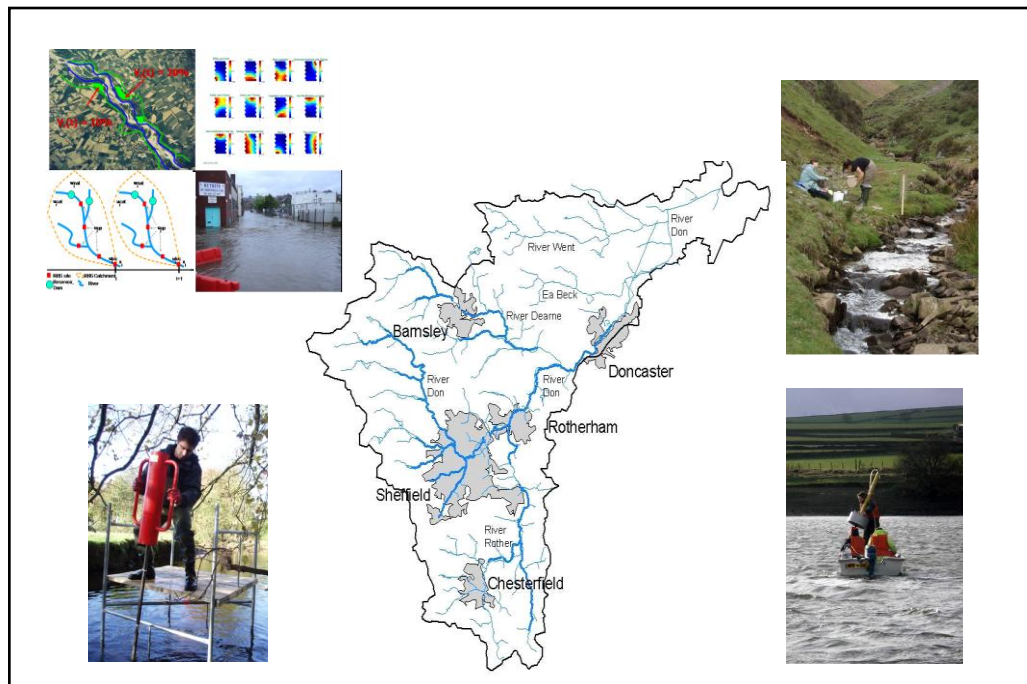


Catchment Science Centre

CATSCI CONTRIBUTIONS OF RESEARCH TO CATCHMENT MANAGEMENT

2 DECEMBER 2009, UNIVERSITY OF SHEFFIELD

FINAL CONFERENCE OF THE CATSCI PROGRAMME
3 YEARS OF MULTIDISCIPLINARY RESEARCH IN THE DON CATCHMENT



GUEST SPEAKERS

DR ARMIN PETER, EAWAG, SWITZERLAND

DR ANNA JÖBORN, SWEDISH ENVIRONMENTAL RESEARCH INSTITUTE

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Launched in 2006, CatSci is a multidisciplinary research programme in catchment science funded by the European Commission under the Marie Curie Early Stage Training Fellowship scheme. The project aims to deliver research to support Integrated Catchment Management as requested by current water management policies such as the Water Framework Directive. The conference will present outputs from the following research areas:

- Catchment modelling and data management
- Socio-economic aspects in catchment management
- Groundwater and surface water interactions
- Benthic and hyporheic invertebrate ecology
- Catchment connectivity

The presentations from the CatSci members will be complemented by contributions of two guest speakers on experiences in river restoration and water management.

The conference aims to provide stimulating discussion and networking opportunities for those involved in land and water management from public and private sectors, stakeholders in water issues as well as academics contributing to achieving the potential benefits of integrated catchment management.

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Chairman: David Lerner

Session 1

- 9:30 Welcome to the conference
9:35 *River restoration in Switzerland. Lessons learnt from the "Rhône-Thur" project.*
GUEST SPEAKER: Armin Peter, EAWAG, Switzerland
10:20 *Introduction to the CatSci programme*
David Lerner

10:30–11.00 Coffee break

Session 2

- 11.00 *Hyporheic and benthic invertebrates and perturbations in flow*
Anna Ritchie
11.15 *Multi-scale control on groundwater and surface water interactions in an area of minor aquifers: monitoring issues and management implications*
Tristan Ibrahim
11.30 *GIS-based groundwater-flow model for the Lincolnshire Limestone aquifer*
Jan Jani
11.45 *Linkages between land and water: effects of land-use change on connectivity*
Irantzu Lexartza-Artza
12.00 Discussion panel

12.30 -13.30 Lunch

Session 3

- 13.30 *Modelling catchment landscape potential to mitigate diffuse pollution from agriculture*
Natasha Tkachenko
13.45 *Methods and approaches to model biotic and geomorphic processes in fluvial ecosystems: scientific and management perspectives*
Simone Bizzi
14.00 *Ecological impacts of culverts: Habitat fragmentation and barriers to dispersal in streams*
Jacqueline Bernet
14.15 *Socio-economic impacts of water management actions*
Emma Westling
14.30 Discussion panel

15.00-15.15 Coffee break

Session 4

- 15.15** *Four principles for improved science to policy communication – with focus on water management*
GUEST SPEAKER: Anna Jöborn, Swedish Environmental Research Institute
16.00 Final summary and close

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Location: The Showroom, Paternoster Row, Sheffield S1 2BX (Two minutes walk from the main railway station and five minutes from City Hall in central Sheffield.)

Cost: £30 to include all refreshments
£15 for students

How to register: Registration forms may be downloaded from the Catchment Science Centre website www.shef.ac.uk/csc and returned to Jenny Chambers at the following address, who will be pleased to help you with any questions you may have.

Jenny Chambers
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North Campus
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Sheffield S3 7HQ

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The Catchment Science Centre was created jointly by the University of Sheffield and the Environment Agency in 2004 with a mission to provide the scientific underpinning for the management of catchments to deliver good ecological quality. The CSC focuses on catchments where both rural and urban pressures are significant, where groundwater is important, and with a remit that runs from socio-economics through science to engineering. The current portfolio of projects is funded by EPSRC, NERC, EU, Yorkshire Water, and the Environment Agency to a total of some £5M and supports a team of ~25 researchers. For more information, visit our website www.shef.ac.uk/csc.

Director: David Lerner, d.n.lerner@shef.ac.uk

Strategy Director: Bob Harris, r.harris@shef.ac.uk