

## FBA Conferences in Aquatic Biology

The Second *Freshwater Biology* Summit



*Freshwater Biology*

The Lancaster  
Environment Centre



### ***Achieving Ecological Outcomes: aquatic ecological responses to catchment management***

12–15 April 2010, FBA Windermere, Cumbria, UK

## PROGRAMME

### **Monday 12 April** (Belsfield Hotel, Bowness-on-Windermere)

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| 1700–1930 | Registration, Tea/coffee   |
| 1745–1815 | Welcome & Introduction to the FBA ( <i>Sir Martin Holdgate &amp; Michael Dobson, FBA</i> ) |
| 1815–1915 | Opening Reception  |

### **Tuesday 13 April** (Conference boat dep. Bowness 0900, arrives FBA 0915)

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| 0915–0945 | Registration   |
| 0945–0955 | Introduction (Conference Convenor, Graham Harris)  |
| 0955–1035 | Opening Address by <i>Miranda Kavanagh</i> ( <i>Director of Evidence, Environment Agency</i> )   |
| 1035–1115 | <i>Emily H. Stanley</i> ( <i>University of Wisconsin, USA</i> ), <i>Ishi Buffam</i> , <i>Noah R. Lottig &amp; Stephen M. Powers</i> – The influence of management activities and restoration on dissolved organic carbon concentrations in streams |
| 1115–1145 | <b>Coffee</b>  |
| 1145–1225 | <i>Stephen K. Hamilton</i> ( <i>Michigan State University, USA</i> ) & <i>Patrick J. Mulholland</i> – Nitrogen uptake and retention in fresh waters  |
| 1225–1305 | <i>Phil Haygarth</i> ( <i>Lancaster Environment Centre, UK</i> ) – Phosphorus dynamics in catchments: from soils to streams to solutions, across scales  |
| 1305–1315 | Discussion   |
| 1315–1415 | <b>Lunch</b>   |
| 1415–1515 | Posters  |
| 1515–1545 | <b>Tea</b>   |
| 1545–1715 | Workshop: Linking macronutrient cycles in fresh waters ( <i>Louise Heathwaite</i> )  |
| 1715–1730 | Summing up (Conference boat dep. 1745)   |



*Image: Robin Welcomme*

[www.fba.org.uk/index/events/summit.html](http://www.fba.org.uk/index/events/summit.html)

**Wednesday 14 April** (Conference boat dep. Bowness 0900, arrives FBA 0915)

- 0930–1010 *James Kirchner (Swiss Federal Research Institute WSL, Switzerland) – Catchments as simple dynamical systems: catchment characterisation, rainfall-runoff modelling, and doing hydrology backwards*
- 1010–1050 *Peter E. Davies (University of Tasmania, Australia), R.H. Magieroski & S. Read – Land use, catchments and the ecological condition of rivers: supporting local management decisions*
- 1050–1120 **Coffee**
- 1120–1200 *Colin S. Reynolds (Freshwater Biological Association and Centre for Ecology & Hydrology, UK) & J. Alex Elliott – Complexity and emergence in aquatic ecosystems: predictability of aquatic ecosystem responses*
- 1200–1240 *Graham Harris (Lancaster Environment Centre, UK) – Why is achieving good ecological outcomes in rivers so difficult? Is it because of the fundamentally complex relationship between catchment characteristics and the responses of aquatic ecosystems?*
- 1240–1300 Discussion
- 1300–1400 **Lunch – Meet the FBA**
- 1400–1530 Workshops (concurrent sessions):  
(A) Ecological responses of rivers (*Graham Harris, Peter Davies & Colin Reynolds*)  
(B) Modelling aquatic systems (*James Kirchner & Keith Beven*)
- 1530–1600 **Tea**
- 1600–1645 Feedback from workshops and discussion
- 1645–1715 *Trevor Page (Lancaster Environment Centre, UK) – Workshop report: Linking scientific understanding and sparse data for catchment management*
- 1715–1730 Summing up (Conference boat dep. 1745)
- 1930 for 2000 Conference Dinner, Belsfield Hotel, Bowness-on-Windermere

**Thursday 15 April** (Conference boat dep. Bowness 0900, arrives FBA 0915)

- 0930–1010 *David Allan (University of Michigan, USA) – Scenario modelling and Bayesian Decision Networks to evaluate relationships between stressors and stream health*
- 1010–1050 *Geoff Phillips (Environment Agency, UK) – Eutrophication Control: how is status assessed and what can we learn about achieving ecological outcomes from long-term studies? Reflections on 30+ years of monitoring of the Norfolk Broads*
- 1050–1120 **Coffee**
- 1120–1200 *Kevin Rogers (Centre for Water in the Environment, South Africa) – Thresholds of potential concern and the adaptive management of rivers in Kruger Park*
- 1200–1240 *Keith Beven (Lancaster Environment Centre, UK) – Modelling everything everywhere: new approaches to decision making for water management under uncertainty*
- 1240–1300 Discussion
- 1300–1400 **Lunch – ‘A taste of Cumbria’**
- 1400–1530 Workshop: Management of Rivers (*David Allan & Kevin Rogers*)
- 1530–1600 **Tea**
- 1600–1640 Concluding session (Scheduled boat service dep. 1700)