

Demonstration Test Catchments: A Joint SWIG and EdenDTC meeting 23rd March 2011

Location: Fellside Conference Centre, Newton Rigg Campus, University of Cumbria, Penrith, CA11 0AH. Map [here](#)

This meeting will comprise a morning of presentations and practical demonstrations, followed after lunch by a field tour of the EdenDTC Newton Rigg Demonstration Farm Platform. **Bring wellington boots and a warm coat!**

The River Eden Demonstration Test Catchments (EdenDTC) project is developing a large-scale research platform to test measures for reducing diffuse pollution from agriculture. It started in spring 2010 and will consider the impacts and effects on both ecosystems and sustainable production over a four year period. This workshop provides an introduction to the EdenDTC, detailing the research platform and hardware that captures real time evidence, to understand the interaction of land use with water and, hence, develop improved and more sustainable approaches to farm management and catchment. Discussions, supported by GIS and laboratory demonstration sessions, will reveal the monitoring capability and we will hear how monitoring from the air can provide invaluable data to compliment water-based measurements.

Looking beyond the EdenDTC project, the workshop also examines future management changes and data gathering requirements with an update on current UKWIR research linking catchment-based science, policy and practices, and thence the impact on the water industry. The workshop also examines an additional catchment-monitoring case study from the Mires Project, in a live interactive session - an example of how wireless remote monitoring has overcome challenges related to power supply, network coverage, physical size, control and ability to provide real-time data.

Early Bird Discount: 10% discount for bookings received by 25th February 2011.

Chairman: Phil Haygarth, Project Leader EdenDTC

09.15 Coffee & registration

09.45 Introduction to the workshop and to the EdenDTC

Phil Haygarth, Lancaster Environment Centre and Project Leader EdenDTC

10.15 Real Time High Resolution Catchment Monitoring- a Live Demonstration

Matt Lowenthal, Manager of the Environment Agency's Catchment Monitoring Network
Matt Dibbs, General Manager, Meteor Communications

10.45 Science in the Clouds: UAVs and Cloud Computing Methods for Spatial Diffuse Pollution Risk Assessment

Dr Sim Reaney, RCUK Research Fellow, Department of Geography and Institute of Hazard & Risk Research, Durham University

11.15 Coffee

11.45 Planning for Potential Changes in Land Management Practices and Policies (report on UKWIR research)

Liz Buchanan, Principal Consultant, Entec UK Ltd

12.15 Real-time monitoring and control for Wireless Remote Monitoring Networks – The Mires Project (extended session showing live interactive data)

Rob Stevens, Managing Director, RS Hydro

13.00 Discussion & Lunch

14.00 Depart for Field tour of the EdenDTC Newton Rigg Demonstration Farm Platform.

15.45 Return to campus & close

REGISTRATION

Special flat rate fee for this meeting: the cost of attending the Workshop is £75.00 inc VAT for members, non-members and EdenDTC strategic partners. Literature may be distributed for a fee of £55 and a limited number of table top displays are available at £105 each. Registrations can be made by Tel: 01925 855741, email: linda.smith@swig.org.uk, web: www.swig.org.uk using the on-line booking form. **Please advise if you have special dietary needs.** Cancellation policy: Refunds can only be made if cancellations are notified at least 5 days in advance of the Workshop date.