INTERNATIONAL CONGRESS ON ENVIRONMENTAL MODELLING AND SOFTWARE

July 7-10, 2008 - Barcelona, Spain

Integrating Sciences and Information Technology for Environmental Assessment and Decision Making

INVITATION TO SUBMIT AN ABSTRACT FOR THE SESSION:

Integrated Catchment Management: How can modelling tools and techniques help?

CONTEXT

The Water Framework Directive has called for Integrated Catchment Management (ICM) to be put into practice, identifying whole-catchment modeling as a key supporting element. The fundamental challenge that ICM presents to decision makers is how to balance competing and often conflicting physical, chemical, biological, social and economic demands that are placed on catchments. A key challenge for modelling which seeks to support the decision makers is to represent these complex systems in simple yet robust ways. In recent years, many modelling techniques with potential application to these challenges have emerged, ranging from graphical probabilistic techniques to agent based AI techniques. Several projects have also taken these techniques forward to the implementation stage and engaged with decision makers.

This aim of this session will be to present recent theoretical and applied works in the area of modelling to support ICM. This session will seek to stimulate analysis and discussion around a number of important issues, including:

- Which modelling approaches are available to support ICM? How do they integrate across processes, space and time? What are their data needs? How can we validate their predictions?

- Comparing different techniques – how can we match the right technique with the right problem?

- The link between plan production and implementation – effective implementation and delivery are essential – what are the issues for effective implementation?

- Acceptance – the challenges of the transition from prototype model to real life application.

Abstracts (2 pages A4 maximum) to be submitted by 30th November 2007

Abstracts to be submitted to:

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For further details see: http://www.iemss.org/iemss2008/index.php?n=Main.S6