



INTERNATIONAL CONGRESS ON ENVIRONMENTAL MODELLING AND SOFTWARE

July 5-8, 2010 – Ottawa, Canada

Theme for 2010: **Modelling for Environment's Sake**

INVITATION TO SUBMIT AN ABSTRACT FOR THE SESSION:

Modelling the coupled social-environmental and physical systems of urban water

CONTEXT

Urban water management (UWM) has changed greatly in recent decades, and is no longer solely about water supply, sewage and flood defence. Urban water is now intimately linked to economic and social regeneration, river restoration and habitat creation, riverside urban development, and the provision of amenity and recreational facilities. There has been fine research and technical work conducted in many of the fields UWM now engages with, although often the interlinked nature of the urban water system has not been fully recognised. The fundamental challenge that UWM presents to decision makers is how to balance competing and often conflicting environmental, social and economic demands that are placed on these systems. A key challenge for modelling which seeks to support the decision makers is to represent these complex systems in simple yet robust ways. An integrated model developed to support UWM should help to negotiate the complex and often conflicting demands associated with urban water systems. In recent years, many modelling techniques with the potential to meet 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. The aim of this session will be to present recent theoretical and applied work in the area of integrated modelling to support UWM. This session will seek to stimulate analysis and discussion around a number of important issues, including:

- Interfacing social and engineering models.
- Comparing different techniques for integrated modelling.
- The challenges facing effective development of integrated models.
- Acceptance – moving from a prototype model to real life application.

Abstracts (up to 2-pages long) to be submitted by 27th November 2009.

Abstracts to be submitted to:

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Session Organisers:

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FOR FURTHER DETAILS SEE:

<http://www.iemss.org/iemss2010/>