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Registration: <http://www.wew.nu/opgave.php?id=02042012>

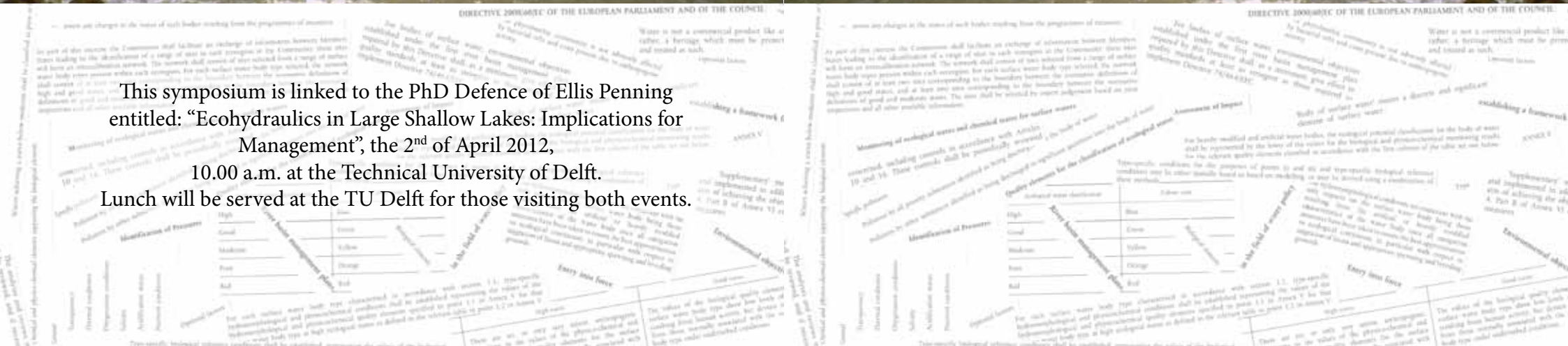
Invitation

Mini-symposium 2nd of April, 2012

Ecohydraulics in Applied Water Science and Management



This symposium is linked to the PhD Defence of Ellis Penning entitled: “Ecohydraulics in Large Shallow Lakes: Implications for Management”, the 2nd of April, 2012, 10.00 a.m. at the Technical University of Delft. Lunch will be served at the TU Delft for those visiting both events.



Ecohydraulics in Applied Water Science and Management

The interaction between hydrodynamics, sediment dynamics, water quality and ecological processes must be well understood for correct management of water bodies.

Especially the interaction between ecological processes and hydrodynamics (ecohydraulics) is currently a focus point in both water science and management of rivers, lakes, streams and estuaries.

Increasing the understanding of the interplay between biota and water movement requires an interdisciplinary dialog both in the scientific and a applied field. Questions that will be addressed during this mini-symposium are:

- What are the important topics in the different disciplines and what can we do to enhance each others expertise?
- Do you need to know all details to understand the functioning of a water body, or how do you incorporate information from different disciplines?
- How can detailed knowlegde on e.g. hydrodynamics be upscaled to larger applied ecosystem studies?
- How can we translate academic research into applied water management?

This mini-symposium aims to give a flavour of the role of ecohydraulics in applied water science and management.

Programme

Chair: Arthur Mynett (UNESCO-IHE, Technical University Delft)

13.00 – 13.15 Registration

13.15 – 13.30 Gerard Blom (Deltares)
Introduction

13.30 – 14.00 Marten Scheffer (Wageningen University)
Ecological engineering

14.00 – 14.30 Brian Moss (University of Liverpool)
Lascivious ladies and the ecosystems of tropical forest streams

14.30 – 15.00 Tea break

15.00 – 15.30 Patrick Meire (University of Antwerp)
How do macrophytes shape our rivers? A difficult balance between water management and ecology

15.30 – 16.00 Wim Uijttewaal (Technical University Delft)
Is eco-hydraulics a special kind of fluid mechanics?

16.00 – 16.30 Bas van der Wal (STOWA - Dutch Foundation for Applied Water Research and Technical University Delft)
Linking science to applied water management. A matter of matching competences?

16.30 - -- Reception