HR Wallingford
Working with water

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Course tutors

Professor William Allsop is Technical Director for Maritime Structures at HR Wallingford, and Visiting Professor at Southampton and in Malaysia. He has over 38 years experience in research and consultancy on testing, analysis, design and optimisation of breakwaters, sea walls, revetments, jetties/piers and reservoir, shoreline, estuarial and coastal structures. He has been a member of ICE Maritime Board, PIANC, BSI, ISO and ICE working groups and chairs the ICE 'Breakwaters' conference.

Dr Tim Pullen is a Coastal Engineer in HR Wallingford's Coastal Structures Group. He has 15 years experience in project management of coastal engineering consultancy and research. He was author and Editor on the recent EurOtop Overtopping Manual, and an author for the 2008 update of the Handbook of Coastal and Ocean Engineering.

Events programme

About HR Wallingford

HR Wallingford is an independent company that carries out research and consultancy in civil engineering hydraulics and the water environment. Over the last 60 years, HR Wallingford has gained a well deserved international reputation for engineering and scientific excellence in the marine environment. The knowledge gained has enabled us to provide expert, technical advice to assist those professionals responsible for designing and managing major maritime infrastructure projects. Our clients include international, national and local governments, environmental regulators, civil engineering consultants, planners and private companies.

April 2012

17	Prediction of wave overtopping for coastal and shoreline defences (EurOtop)
TBC	Introduction to Environmental Impact Assessment (EIA) and Consents
TBC	Cleaning the waters

For more details visit our events website at
http://events.hrwallingford.co.uk

Prediction of wave overtopping for coastal and shoreline defences (EurOtop)

Tuesday 17 April 2011

Prediction of wave overtopping for coastal and shoreline defences (EurOtop)

Introduction

Developments close to the shoreline (coastal, estuarial or lakefront) are often exposed to significant flood risk and/or potential overtopping damage during storms, yet such sites are often highly valued. Wave overtopping / flood risks are likely to increase driven by increased sea levels, and stronger wind speeds.

Understanding flood risk from wave overtopping is a key requirement for effective management of coastal / shoreline defences, but such defences range from simple earth banks through to vertical concrete walls, or more complex composite structures. Each of these require different methods to assess overtopping.

The course will introduce the EurOtop manual and will present established and new techniques to predict wave overtopping at seawalls, flood embankments, breakwaters and other shoreline structures.

This course will be presented by Professor William Allsop and Dr Tim Pullen (lead authors of the EurOtop Manual) and will give guidance on analysis and/or prediction of wave overtopping for flood defences attacked by wave action. The manual has been intended to assist coastal engineers analyse overtopping performance of most types of sea defence found around Europe. Methods and guidance described in the manual may also be helpful to designers or operators of breakwaters, reclamations, or inland lakes or reservoirs.

Aimed at

The course is designed for graduate and chartered engineers, flood risk managers, consultants, contractors, owners / operators of coastal or reservoir/lake frontages, post-graduate researchers, and any others who need to be able to anticipate and / or predict wave overtopping.

*We reserve the right to make changes to the programme content at any time.

Course content*

The course will introduce the EurOtop manual and will present established and new techniques to predict wave overtopping at seawalls, flood embankments, breakwaters and other shoreline structures.

The presentations will then introduce the main types of structure, define key structural and hydraulic parameters, discuss the types of prediction methods, and give guidance on how results should be interpreted. A discussion on tolerable discharges and overtopping processes will give guidance on tolerable discharges.

The main presentations will describe each of the main methods available for predicting overtopping, including desk calculations, use of the Neural network tool, PC Overtopping and EurOtop's online Calculation Tool. Example calculations and case studies will be used to illustrate key methods. Iterative or explicit approaches to setting a crest level will be illustrated.

Learning outcomes

At the end of the course participants will be familiar with the most recent guidance on wave overtopping. They will have hands-on experience of key input parameters, application of prediction tools, and understand the levels of confidence that can be ascribed to such predictions. They will understand the significance of different sources of guidance, including recent or future research results and, therefore, be able to devise alternative solutions to wave overtopping problems with confidence by understanding the overtopping process, and direct experience of the main prediction methods.

Event hours

Registration will open at 09:00 and the meeting will close by 17:00.

Documentation

Course attendees will receive individual copies of the up-dated EurOtop Manual, including comprehensive references and glossary. Tutorial examples will be supported by worked examples.

Venue

The course will be held in our new conference facilities at HR Wallingford. Howbery Park's Fountain Conference Centre opened in 2011 and is purpose built.

Continuing professional development

This course merits one full day CPD.

Registration and payment*

Standard registration is £330 plus VAT per participant and includes all documentation, lunch, and morning and afternoon refreshments.

It's easy to register online at: http://events.hrwallingford.co.uk, no matter what your preferred form of payment. You can pay by credit card, request an invoice or send a cheque in pounds sterling payable to HR Wallingford. Payment may also be made by telegraphic transfer to our account number 1021860 at Lloyds TSB Bank plc (Sort Code 30-91-31), Broad Street, Reading, RG1 2BT, quoting reference (CAT0216).

Alternatively, return your completed registration form to: Jackie Harrop, HR Wallingford, Howbery Park, Wallingford, Oxfordshire OX10 8BA (fax +44 (0)1491 825483, email training@hrwallingford.com.

*We require payment in full before the event. Until payment is received places cannot be confirmed.

Cancellation

Cancel your booking more than four weeks before the start of the event, and registration costs will be refunded minus a 10 per cent (+VAT) administrative charge. Cancel between two and four weeks before the event, and 50 per cent of the registration will be refunded. No refunds will be made for cancellations received less than two weeks before the event. Name substitutions can be made at any time.

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Tuesday 17 April 2012

It's quick and easy to register online at http://events.hrwallingford.co.uk

Offline registration

Please complete in block capitals

(Prof/Dr/Mr/Ms)_____

First Name_____

Surname_____

Organisation_____

Job Title_____

Address_____

_____

_____Postcode_____

Telephone_____

Fax_____

Email*_____

Signature_____Date_____

*Joining instructions will be sent by email.

Fees

Standard registration £396 (£330 plus £66 VAT)

Payment

☐ I enclose a cheque for £396 payable to HR Wallingford

☐ Send me an invoice (if registering more than 30 days before the event)

Your details will be added to our Company Database and will be used to mail details of other HR Wallingford Group activities. Please email training@hrwallingford.com if you do not want to receive this information. We do not pass this information to any other company outside the HR Wallingford Group.

Please return the completed form to Jackie Harrop, HR Wallingford, Howbery Park, Wallingford, Oxfordshire OX10 8BA, United Kingdom
email training@hrwallingford.com