Wednesday 6 June 2018

08:30 Registration
09:25 Welcome

Session 1: The Overtopping Simulator (Chair: Pullen)
09:30 Keynote: Hydraulic simulators on real dikes and levees. J.W. van der Meer
10:00 Summary of research work about erodibility of grass revetments on dikes. G. Hoffmans
10:20 Modelling wave overtopping for flood defense reliability. J.J. Warmink
10:40 Refreshments

Session 2: Wave overtopping developments (Chair: Pearson)
11:00 Waves, wave overtopping discharges and wave overtopping volumes on reservoir structures. T. Pullen
11:40 Behaviour of a moveable barrier on revetment for mitigation of disaster by wave overtopping. J.H. Seo
12:00 Forecasting coastal overtopping: What’s the worst that can happen? I.M. Gold
12:20 Discussion
12:40 Lunch

Session 3: Soil erosion (Chair: Hepler)
13:40 Comparing soil erodibility predictions against the fundamental understanding of erosion. M. van Damme
14:00 Erosion resistant dikes thanks to soil treatment with lime. G. Herrier
14:20 Quantifying the erosion resistance of dikes with the overflowing simulator. S. Bonelli
14:40 Revetment failure tests in the River Experiment Center. D.H. Lee
15:00 Soil / structure transitions. J. Simm
15:20 Refreshments

Session 4: Stabilisation and resistance (Chair: Courivaud)
15:50 Ice overtopping of embankments: Ice-tank experiments and field observations. R. Ettema
16:10 Managing legacy infrastructure into the future: The River Winster and Meathop Drain flood risk. D. Glasson
16:30 Determination of erosion parameters of coarse-grained materials using a small flume. G.S. Ellithy
16:50 The effect of a stabilized stone drainage layer on ACB performance in open channel flow applications. J. Nadeau
17:10 Day one review
17:30 Close day 1

Evening - Free
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T. Pullen

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WireWall: a new approach to coastal wave hazard monitoring.  
J.M. Brown

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Close day 1

**Evening - Free**

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### Thursday 7 June 2018

**09:00 Welcome & announcements**

**Session 5: Modelling protection (Chair - Moran)**

**09:10**

*Keynote:* Recent advances in the numerical simulation of the failure of rockfill dams in overtopping scenarios.  
A. Larese

**09:40**

Tbc

**10:00**

A new evolution on the wedge-shaped block for overtopping protection of embankment dams: the ACUÑA block.  
F.J. Caballero

**10:20**

Numerical modelling of skimming flow over small converging spillways.  
F. Nunes

**10:40**

Refreshments

**Session 6: Dams and Levees (Chair - Simm)**

**11:00**

An overview of levees and reservoirs in England.  
C. Mitchell

The effect of material zones and layers on breach growth and prediction.  
M. Morris

**11:40**

Overflowing erosion modelling of embankment dams and dykes: state of the art and research needs.  
J-R. Courivaud

**12:00**

Increasing the resilience and improving the environmental performance of earthen flood defense structures with high performance turf reinforcement mat reinforced vegetation.  
R. Thompson

**12:20**

Discussion

**12:40**

Lunch

**Session 7: Applied Overtopping (Chair - Brown)**

**13:40**

Distribution of wave by wave overtopping volumes at vertical seawalls.  
M. Salauddin

**14:00**

Wave overtopping pressures and spatial distribution behind rubble mound breakwaters.  
P.J. Watson

**14:20**

Physical model tests to determine the roughness of stair shaped revetments.  
P. van Steeg

**14:40**

Alde and Ore estuary, U.K. - levee overtopping performance - defence upgrade with 50 km of simultaneous overtopping.  
A. D. Hawes

**15:00**

Two large-scale test channels for overtopping and earthquake-flood compounded disasters.  
Y. Nihei

**15:20**

Refreshments

**Session 8: Dam Overtopping & Protection (Chair - Morris)**

**15:50**

Successful Overtopping Protection Projects in the Eastern U.S.  
T. Hepler

**16:10**

Influence of the anisotropy of the material on the pore water pressures within the downstream shell of a rockfill dam in overtopping scenario.  
J.C. Díaz

**16:30**

Protection of embankment dam toe and abutments under overtopping conditions.  
G.H.R. Ravindra

**16:50**

Advances in the characterization of pressures and velocities in the overtopping of arch and gravity dams.  
I.G. Castillo

**17:10**

Close and Review (Pullen et al)

**19:30**

Conference dinner - conference hotel
### Field trip

<table>
<thead>
<tr>
<th>Time</th>
<th>Itinerary</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Leave Grange Hotel</td>
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<tr>
<td></td>
<td>Travel to Thirlmere reservoir (via Newby Bridge, Windermere and Grasmere)</td>
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<tr>
<td></td>
<td>Mike Dixon (United Utilities)</td>
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<tr>
<td>10:00</td>
<td>Arrive head of Thirlmere</td>
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<tr>
<td></td>
<td>View road erosion and repairs</td>
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<td></td>
<td>Mike Dixon (United Utilities)</td>
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<tr>
<td>11:00</td>
<td>Travel to Thirlmere draw off tower</td>
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<tr>
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<td>Observe where rock fall consumed and closed A591</td>
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<td></td>
<td>Mike Dixon (United Utilities)</td>
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<td></td>
<td>Michael Harper (Environment Agency)</td>
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<tr>
<td>11:30</td>
<td>Leave for Kings Head Inn</td>
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<tr>
<td></td>
<td>Presentation on Thirlmere Dam</td>
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<td></td>
<td>Mike Dixon (United Utilities)</td>
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<td></td>
<td>Buffet lunch</td>
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<tr>
<td>12:45</td>
<td>Leave for Thirlmere Dam</td>
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<tr>
<td></td>
<td>Visit Thirlmere Dam</td>
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<td></td>
<td>Mike Dixon (United Utilities)</td>
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<tr>
<td>13:30</td>
<td>Leave for Keswick</td>
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<td></td>
<td>Visit Keswick flood alleviation scheme</td>
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<td></td>
<td>Michael Harper (Environment Agency)</td>
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<tr>
<td>14:00</td>
<td>Leave for Glenridding (via A65, A5901 and Ullswater)</td>
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<tr>
<td></td>
<td>Visit Glenridding flood damage and repairs</td>
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<tr>
<td></td>
<td>Michael Harper (Environment Agency)</td>
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<tr>
<td>15:00</td>
<td>Return to Hotel (via Kirkstone Pass)</td>
</tr>
<tr>
<td>16:00</td>
<td>Arrive Hotel</td>
</tr>
</tbody>
</table>

Correct as of 16 May 2018