



EVENING MEETING

MONDAY 8th MAY 2017 at 6:00pm

One Great George Street, London
(Nearest tube: Westminster)

Butterley Impounding Reservoir Spillway Improvement Works

By

Andrew Hobson (Yorkshire Water) and Richard Robson (Mott MacDonald Bentley Ltd)



For a brief synopsis see overleaf

**Admission free
Teas available from 5.30pm**

**For more information please contact
Tim Fuller (BDS Secretary) on 020 7665 2234 or email : bds@ice.org.uk**

This meeting will also be streamed live on the internet. For more details on
how to view this meeting online please visit the BDS website.



Butterley Impounding Reservoir Spillway Improvement Works

Synopsis

T&C Hawksley were commissioned by Huddersfield Corporation Waterworks to construct the Butterley Reservoir with works commencing in August 1891. Construction was completed in June 1906. The spillway is of masonry and concrete construction, located to the RHS of the embankment. The spillway is also a Grade II listed structure.

In June 2013 both planning and listed building applications were submitted for improvement works to the spillway. The improvement works to the spillway entailed building a new reinforced concrete spillway within the existing one and smoothing out the steep cascades with a gradient similar to that of the existing upper spillway.

Elements were incorporated into the design to mitigate the visual impact on the existing structure, by lining the raised concrete walls internally in masonry, reusing the coping stones and locally re-profiling the embankment. Works have been progressing on site since Spring 2016 and are virtually complete.

The presentation will focus on four aspects:-

- i) The historical background of the construction of Butterley IRE which has had a substantial impact on the present scheme.
- ii) The challenges associated with the optioneering and planning processes.
- iii) The detailed design considerations and discharging the planning conditions.
- iv) The successful construction phase.

The spillway improvement works won the Smeaton Award for projects greater than £500,000 and less than £5m at the Yorkshire and Humber ICE Awards in March 2017

Biography details for the presenters

Andrew Hobson

Andrew Hobson is a Chartered Civil Engineer and Supervising Engineer with Yorkshire Water. He is the Senior Project Manager for Reservoir Projects.

Richard Robson

Richard Robson is a Fellow of the Institution of Civil Engineers and Supervising Engineer. He is Technical Director at Mott MacDonald and has a Reservoir Safety technical overview role with Mott MacDonald Bentley including work on the Yorkshire Water Framework.

Any views or opinions expressed on any matters by the presenters or participants during or in connection with this presentation are solely the views of the authors of the respective comments and/or opinions and must not be taken to be the views of the ICE or the British Dam Society or any other organisation. ICE and the British Dam Society make no representations, warranties or assurances concerning any information provided in these presentations and accept no responsibility for the content and/or accuracy.