



EVENING MEETING

Monday 16th February 2015 at 5:30pm

One Great George Street, London

(Nearest tube: Westminster)

Flood Storage Reservoirs - 40yrs of Lessons Learned

By

Andrew Pepper (ATPEC)

For a brief synopsis see overleaf

Admission free

Teas available from 5.00pm

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.



Flood Storage Reservoirs - 40yrs of Lessons Learned

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The presentation will show how the design of flood storage reservoirs (FSRs) has changed over the last 40 years, and why some of the older FSRs do not perform as originally intended.

It will cover a number of aspects of the design of FSRs, starting with comparing their function in flood alleviation schemes with other types of potential intervention.

Particular aspects of hydrology relevant to FSR design will be highlighted, as some of these are very different to those used for other reservoirs.

The ways in which the design of FSR dams and their features differs from other dams will also be covered.

A full range of flow controls will be reviewed, with examples showing advantages and disadvantages of each. Many other design details, taken from years of working closely with operating staff, will be highlighted.

Aspects of maintenance and monitoring will also be covered, outlining parameters that need to be monitored and how to review the data collected.

The presentation will include many photographs of FSRs to highlight specific features.

Biography details of presenter

Andrew Pepper is a Chartered Civil Engineer who runs his own river engineering consultancy. He has worked in the UK and overseas, and has been an independent consultant since 1991.

His early work with FSRs was with the Welland & Nene River Division of Anglian Water, and both there and subsequently he worked closely with designers and operators to understand the requirements of an effective FSR.

He has been a Supervising Engineer since 1989 and Technical Secretary of the British Dam Society since 2009. He is currently supervising a number of FSRs and has carried out the design and subsequent site supervision of upgrades or remedial works on many of these.