



EVENING MEETING

MONDAY 3rd OCTOBER 2011 at 6:00 PM

One Great George Street, London

(Nearest tube: Westminster)

**Internal Erosion at Existing Dams:
An Outline of the new ICOLD Bulletin**

By

**Rodney Bridle (Dams Safety Ltd.), Alan Brown (Jacobs), and Jean
Jacques Fry (EDF)**

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.



Internal Erosion at Existing Dams: An Outline of the new ICOLD Bulletin

By

**Rodney Bridle (Dams Safety Ltd.), Alan Brown (Jacobs), and Jean
Jacques Fry (EDF)**

The presentation will take us through the draft bulletin dealing with the statistics and the seriousness of internal erosion threat to dams; the four types of internal erosion and how they could progress to breach; how to examine the internal erosion threat at existing dams, including screening to decide if the level of threat warrants attention by safety works or monitoring to various degrees of rigour; evaluating critical loading conditions that may initiate internal erosion, whether the properties of the dam will allow erosion, if initiated, to continue or whether erosion will be prevented by the filtering capabilities of the dam fills or foundation materials. The influence of material properties, hydraulic conditions and stress state will be introduced. The relative vulnerabilities of dams to erosion at concentrated leaks, backward erosion, contact erosion and suffusion will be considered. The limited range of safety works options that are suitable will be discussed. Illustrations from case histories and laboratory work will be included.