



SANCOLD NEWS 2009.1.30

Workshop: Revision of the SANCOLD Interim Guidelines on Freeboard for Dams.

This half day workshop on Thursday 12 March 2009 on the Revision of the SANCOLD Interim Guidelines on Freeboard for Dams forms part of a SA Water Research Commission Project to review and revise the SANCOLD freeboard guidelines. The workshop will discuss a literature review with international trends, case studies on analytical and mathematical models to calculate wind wave freeboard requirements, and hydrodynamic modelling of unsteady flow conditions in a reservoir such as setup and seiches. In addition the possible combination of the freeboard components using a risk analysis methodology will be discussed. The detailed programme and registration form is enclosed. SANCOLD members pay a reduced registration fee.

ICOLD Benchmarking Workshop on the Numerical Analysis of Dams

For the tenth time, The ICOLD Technical Committee on Computational Aspects of Analysis and Design of Dams will organize a Benchmark Workshop in Paris from 16 to 18 September 2009. A limited number of participants can be accommodated at the Workshop. This event will allow researchers, engineers and software developers to compare their methods and software packages in application to the resolution of the presently most crucial problems facing the community of dam designers. SANCOLD has received the first announcement bulletin and will send it to you upon request. The topics to be covered by the Workshop are:

- Theme A: "Initial strain and stress development in a thin arch dam considering realistic construction sequence";
- Theme B: "Analysis of a concrete faced rockfill dam including concrete face loading and deformation";
- Theme C: "Stability of a dam abutment including seismic loading".

Contact the SANCOLD Secretariat at secretary@sancold.org.za for detailed information.

Book on the water supply of Port Elizabeth and Uitenhage

A book entitled: "Streams of Life -The Water Supply of Port Elizabeth and Uitenhage" has been published by Dave Raymer. The book covers the development of the Nelson Mandela Bay's water schemes and describes the battle the community of Port Elizabeth and Uitenhage had to endure for adequate water supplies over the last 160 years. It describes the periodic droughts that the Eastern Cape experiences, floods that disrupted water supplies, the need to implement ambitious and costly water schemes outside its area and the fierce rivalry that existed between Port Elizabeth and Uitenhage over local water sources. The book has 75 pages of photographs, many historic. It will be of interest to water engineers and academics and historians. The book is available at Fogarty's Bookshop, Walmer Park Shopping Centre, Port Elizabeth at R230.00 (VAT inclusive) Tel No 041 368 1425 fogartysacc@global.co.za or directly from the author at R180.00 plus R20 postage Tel No 041 581 2916 elraymer@absamail.co.za .

Draft ICOLD Bulletin on Cost Savings in Dam Construction

The ICOLD Technical Committee on the above subject has produced a draft Bulletin (Report of 87 pages, 1.26MB). The Report will be considered for approval at the forthcoming ICOLD Executive Meeting in Brasilia. This bulletin is devoted to:

- Identifying and mitigating existing non technical factors detrimental to cost savings.
- Technical opportunities for innovation and cost savings in the design of both high and low dams.

If you wish to review this report and comment on it, please contact secretary@sancold.org.za .

Draft ICOLD Report on the Physical Properties of Hardened Conventional Concrete in Dams

The ICOLD Committee on Concrete Dams has produced a draft report on the above topic which will be considered for approval at the forthcoming Executive Meeting in Brasilia. The purpose of the Report is to provide a comprehensive treatise on the physical properties of hardened conventional concrete for dams, refreshing the partial information contained in some out-of-date ICOLD Bulletins, giving an account of new approaches and examining some important properties not included in the previous Bulletins. The main body of this Bulletin addresses the physical properties of the mass concrete used most frequently in design and analyses of concrete dams and appurtenant structures. These include strength, elastic, creep, shrinkage and thermal properties, permeability, and frost resistance. The scope of the Bulletin is, for each property considered, to show typical behaviour, factors influencing it, methods for experimental determination, and methods to introduce the properties in mathematical models to be utilized both for design and observation. If you wish to comment on this draft report please send an e-mail to secretary@sancold.org.za . The Report is 210 pages long and has a total file size of 10.37 MB.

Comments on SANCOLD News

SANCOLD News will also be placed on the SANCOLD website in addition to direct e-mailing to SANCOLD members. Feedback on the value of the news would be appreciated as well as suggestions for news items. Please log onto the SANCOLD website www.sancold.org.za from time to time.