

3rd International Conference on **DAM ENGINEERING**

20 – 22 March 2002, Singapore

Table of Contents

Title of Paper/Author

Keynote Paper

Lessons learnt from the earthquake behaviour of large dams and their implications on seismic design criteria

M Wieland

Seismic aspects of dam design

M Wieland

Technical Papers

Effect of construction joints on the seismic response of concrete gravity dams

P Alavi and M Ghaemian*

Validation of consolidation and stability models via large scale monitoring programme of an embankment dam – The Observational Technique

A S Al-Homoud*

Technical specifications in dam grouting©

A S Ameli*

Results of grouting tests carried out in upper Gotvand damsite

H Bagheri* and J A Namini

Geomembrane applications in the small irrigation dam projects in Libya

R Baki_ and M Bilgin*

Models for safety control of concrete dams

A L Batista*, J M Ramos, S B Oliveira and J P Gomes

Improving bond strength in R C C dams

H Bayat* and R Rahgozar

Engineering measures to prevent cracking at the upstream base of high arch dam

C B Du* and Y Qiu

Analysis of the failure of Mei Hua Arch Dam with perimetral joint

C B Du* and Y Qiu

Instrumentation and monitoring at Pong Dam

S K Duggal*, S K Gupta and R Pandey

The impact of unforeseeable subsurface ground condition on the construction of Intake Dam–Musihpp

A Firman*

Dam reservoir interaction effects on nonlinear seismic response of concrete gravity dams

M Ghaemian* and A Ghobarah

A critical review of the use of a neural network prediction model in the surveillance of a large dam

L C Hattingh*

Raising the Al–Houiz Dam in Syria

O Ibrahim*

Predictions of EQL vs Nested surface plastic models for dynamic response of high rockfill dams

F Jafarzadeh* and H Javaheri

Behaviour of zoned rockfill dams during construction and first impounding

F Jafarzadeh* and M Talebi

Concrete dam refurbishment using PCF™ Cartridge Technology – Canning Dam

S Keniston and C Paterson*

A numerical analysis method for static behaviour of fill–type dams

Y Kohgo*, I Asano and Y Hayashida

A study of joint effects in the earthquake analysis of concrete arch dams

V Lotfi* and R Espandar

Analysis of operational safety of earth dams

M Luca*, V Hobjila, D Cotiusca–Zauca

Prevention & cure measures of chemical suffosion due to environmental water on dam site

X H Ma, L Q Zhai, G Z Yang and H X Peng*

Evaluation of the relationship between permeability and rock parameters

A Mahboubi*

Embankment failure in Bangladesh

Md Zahurul Islam*

First impounding pore pressure development in the dam body and foundation of Karkheh Dam

A A Mirghasemi*

Hydraulic design of flow through rockfill embankments

T Morii*, Y Takeshita and T Hasegawa

Analysis of horizontal dam deformation based on geodetic measurement

G Nistor* and I Nistor

Elasto–plastic seismic response of the Karkheh Dam

J Noorzaei*, M Karami, H R Ghafouri and M Rashidian

Effect of contraction joint on static and dynamic response of Liro arch dam

J Noorzaei*, H Ghafouri and E Mohammadian

Evaluation of crest settlement of rockfill dams after construction
T Okamoto*

Evaluation of crest deflection of rockfill dams in long-term duration and first filling
T Okamoto*

Evaluation of the nonlinear dynamic response of concrete arch dams including water compressibility
O Omidi*, F R Rofooei* and V Lotfi

On the use of re-deposited lahar from Mt Pinatubo as embankment materials
R Orense* and A Zapanta Jr

Expert system technology: A New approach to dam safety management
E A Portela*

The use of review boards and similar processes as dispute avoidance tools for dams and related projects in the Asia-Pacific region
N Reich* and R Hunt

A modification of Lombardi curve for arch dam
Q W Ren* and Y Qiu

Investigating the effects of contraction joints on the seismic response of concrete arch dams
F R Rofooei*, V Lotfi and O Omidi

SCANSITES™ – a new tool for dam's remote visual inspection
J F Sageau*, H Lançon and D Reith

Experimental investigation of flushing sediments through reservoirs
N Talebbeydokhti, G R Rakhshandhroo* and A Naghshineh

Dynamic progressive failure of earth dams by FEM and model experiment
T Tanaka, Y Saito, Y Kohgo and D Harada*

Safety Evaluation of a Concrete Faced Rock-fill Dam
S J Wang*, H Xie, J C Li, X B Duan, B X Shi and F C Dong

Water quality characteristics and seepage of rock dam foundation
G Z Yang, L Q Zhai and H X Peng*, Hohai University, China

Seismic safety evaluation of concrete arch dam based on shear failure of jointed rock mass at abutment
M Yazdani* and H Horii

Index of Authors
Contents of Past conferences held in 1993 and 1995

Secretariat Office

CI-PREMIER PTE LTD

150 Orchard Road #07-14, Orchard Plaza, Singapore 238841
Tel: (065) 67332922 Fax: (065) 62353530 E-Mail: cipremie@singnet.com.sg

With ISBN reference.