

International Workshop on Constitutive Modelling – Development, Implementation, Evaluation, and Application

Hong Kong, China

12 and 13 January 2007 (Friday and Saturday)

Workshop website:

<http://www.cse.polyu.edu.hk/cemodel>



ORGANIZATIONS:

- The Hong Kong Polytechnic University
- International Association of Computer Methods and Advances in Geomechanics (IACMAG)

SPONSORING ORGANISATIONS:

- China Institution of Soil Mechanics and Geotechnical Engineering of China Civil Engineering Society
- Hong Kong Geotechnical Society
- Geotechnical Division of The Hong Kong Institution of Engineers
- Hong Kong Society of Theoretical and Applied Mechanics

INTRODUCTION

Constitutive modelling of geomaterials has been an active research area with a long history. Different approaches have been used for the development of various constitutive

models. A number of models have been implemented in numerical analyses of earth structures. Critical reviews and evaluations of these models are necessary.

OBJECTIVE

The objective of the Workshop is to provide a forum for researchers and engineers working or interested in the area of constitutive modelling to meet together and share new ideas, achievements and experiences through presentations and discussions. Emphasis will be placed on critical reviews and fundamental evaluations of constitutive models, either previously or newly developed. Applications of the constitutive models in geotechnical analyses are highly encouraged. Prominent scholars, researchers and engineers around the world will be invited. All accepted papers will be presented. Open discussion and scholarly debate will be facilitated.

THEME AND TOPICS

The theme of the Workshop is *Constitutive Models: Critical Review, Fundamental Evaluation and Practical Applications*. The topics in the theme area include:

- (i) Measured properties and behaviour of geomaterials
- (ii) Fundamentals and general approaches in constitutive modelling
- (iii) Constitutive models for granular materials
- (iv) Constitutive model for clays
- (v) Constitutive models for rocks
- (vi) Identification of parameters, their determination and sensitivity
- (vii) Validation of constitutive models
- (viii) Implementation of constitutive models,
- (ix) Applications of constitutive models in geotechnical engineering, and
- (x) Critical review and fundamental evaluation of constitutive models.

Papers in relation to identification, validation, calibration, and sensitivity study of model parameters are particularly welcomed.

CALL FOR PAPERS

Prospective authors should submit an abstract in English of up to 300 words related to the theme topics. The work in a proposed paper shall be original and has not been

published elsewhere. Abstracts and papers shall be submitted to Miss WH Zhou (Assistant and email: cemodel@polyu.edu.hk) c/o, the Department of Civil & Structural Engineering, The Hong Kong Polytechnic University, Kowloon, Hong Kong.

WORKSHOP FORMAT AND PUBLICATIONS

The Workshop will include sessions for presentation and discussion. The working language will be English. All papers will be published in proceedings. Selected papers may be considered for publication in *International Journal of Geomechanics*, ASCE, subject to usual peer review.

KEY DATES

- Deadline for submitting abstracts: 6 March 2006
- Notification of provisional acceptance: 6 May 2006
- Deadline for submitting papers: 6 July 2006
- Notification of acceptance of papers: 6 September 2006
- Final program: November 2006

ORGANIZATION

Conference Chairman:

Professor Jian-Hua YIN, The Hong Kong Polytechnic University, Hong Kong, China

Co-Chairman:

Professor CS Desai, University of Arizona, USA

Assistants:

Miss W.H. Zhou and Mr MD Zaman

International Advisory Committee Members:

Toshihisa Adachi (Japan)

Eduardo Alonso (Spain)

A. Anandrajah (USA)

A. Asaoka (Japan)

Giovanni Barla (Italy)

R. Bathurst (Canada)

G. Biscontin (USA)

M. Bolton (UK)

Z.Y. Cai (China)

Dave Chan (Canada)

John Carter (Australia)

Y.M. Chen (China)

Z.Y. Chen (China)

Y.K. Chow (Singapore)

I.F. Collins (New Zealand)
Nicolae Cristescu (USA)
Y.F. Dafalias (Greece)
F. Darve (France)
Marta Dolezalova (Czech Republic)
Ahmed Elgamal (USA)
Conrad Felice (USA)
Ken Fishman (USA)
A. Gens (Spain)
Giancarlo Gioda (Italy)
G. Gudehus (Germany)
Jie Han (USA)
Robert Holtz (USA)
H.W. Huang (China)
M.S. Huang (China)
Guy Houlsby (UK)
Buddhima Indraratna (Australia)
V.N. Kaliakin (USA)
Niki Kringos (The Netherlands)
P.V. Lade (USA)
C. Lauro (Brazil)
G.X. Li (China)
Tao Li (China)
W.D. Liam Finn (Canada)
H.I. Ling (USA)
H.L. Liu (China)
M.T. Luan (China)
M.T. Manzari (USA)
Hiroshi Matsuda (Japan)
G. Meschke (Germany)
H.Y. Ming (China)
Akitoshi Mochizuki (Japan)
A. Murakami (Japan)
K.K. Muraleetharan (USA)
R. Nova (Italy)
Y. Ohnishi (Japan)
F. Oka (Japan)
Panos Papanastasiou (Cyprus)
W.G. Pariseau (USA)
David Potts (UK)
Mark Randolph (Australia)
M.P. Romo (Mexico)
Kerry Rowe (Canada)
Rodrigo Salgado (USA)
Tom Scarpas (The Netherlands)
H.F. Schweiger (Austria)
J.F. Semblat (France)
D.N. Singh (India)

Hema Siriwardane (USA)
Z.J. Shen (China)
Scott Sloan (Australia)
Kiichi Suzuki (Japan)
C.A. Tang (China)
Fumio Tatsuoka (Japan)
Hywel Thomas (UK)
S. Valliappan (Australia)
Nielen Van der Merwe (S. Africa)
A. Varadarajan (India)
I. Vardoulakis (Greece)
Pieter Vermeer (Germany)
Laurent Vulliet (Switzerland)
Richard Wan (Canada)
A.J. Whittle (USA)
Wei Wu (Austria)
Y.P. Yao (China)
Z.Z. Yin (China)
H.S. Yu (UK)
S.A. Yufin (Russia)
Musharaff M. Zaman (USA)
Feng Zhang (Japan)
Jian-Ming Zhang (China)
Jian Zhao (Switzerland)
Y.R. Zheng (China)
Weiyuan Zhou (China)
H.H. Zhu (China)

Local Organizing Committee:

Prof. J-H Yin (Chair) and Prof. X.S. Li (Co-Chair)
Dr. Mark H.C. Chan, Prof. Y.M. Cheng, Prof. K.T. Chau,
Dr. S.L. Chiu, Dr. Daman Lee, Prof. Y.H. WANG, Prof. J. Yang,
Dr. Khen Cheok Yeo, Prof. Z.Q. Yue, Prof. L.M. Zhang



Pre-registration Form

Title: _____

Surname: _____

First Name: _____

Institution/Organization: _____

Address: _____

Postcode: _____

Email: _____

Tel: _____

Fax: _____

Attendance to the Workshop: Yes or No

Proposed paper title: _____

Please return the pre-registration form together with paper abstract by email (post or fax) to:

Miss WH Zhou (Assistant)
Department of Civil & Structural Engineering
The Hong Kong Polytechnic University
Kowloon, Hong Kong
Email: cemodel@polyu.edu.hk
Fax: (852) 2334-6389
Tel: (852) 2766-6008

Workshop website:
<http://www.cse.polyu.edu.hk/cemodel>