

**TWO-DAY SEMINAR ON *DECODING EUROCODE 7***

**2 & 3 November 2006**

**Novotel Clarke Quay Hotel**

**Course Fee per participant: \$360 (inclusive of GST and lunches)**

Name of Participant(s):

1. Dr/Mr/Mrs/Ms : \_\_\_\_\_

Designation : \_\_\_\_\_

2. Dr/Mr/Mrs/Ms : \_\_\_\_\_

Designation : \_\_\_\_\_

3. Dr/Mr/Mrs/Ms : \_\_\_\_\_

Designation : \_\_\_\_\_

Name of Organisation : \_\_\_\_\_

Address of Organisation: \_\_\_\_\_

\_\_\_\_\_

Contact Person : \_\_\_\_\_

Tel No. : \_\_\_\_\_ (O) \_\_\_\_\_ (HP/Pg)

Fax No. : \_\_\_\_\_ Email : \_\_\_\_\_

Please find :

Cheque No : \_\_\_\_\_ Amount (S\$) : \_\_\_\_\_ made payable to "Building and Construction Authority"

Authorised Signature /Company Stamp: \_\_\_\_\_

**Closing Date :** Please send in your registration form together with your payment by **20<sup>th</sup> Oct 2006**.

Registration will be on a first-come-first-serve basis. Crossed cheques should be made payable to: "Building and Construction Authority" and mailed together with the registration form to the following address:

Building and Construction Authority  
5 Maxwell Road #05-00 MND Tower Block  
Singapore 069110  
Attn : Ms Mary Siow

**Fax: 63257150 Email: [Mary\\_Siow@bca.gov.sg](mailto:Mary_Siow@bca.gov.sg)**

No refund of fees will be made for cancellation. However, a replacement for the participant is allowed **before** the closing date.

**Enquires :** For more information, please contact  
Ms Goh Guat Khim Tel: (65)63251911 email: [Goh\\_Guat\\_Khim@bca.gov.sg](mailto:Goh_Guat_Khim@bca.gov.sg)  
Dr Poh Teoh Yaw Tel: (65)63255181 email: [Poh\\_Teoh\\_Yaw@bca.gov.sg](mailto:Poh_Teoh_Yaw@bca.gov.sg)

**Fax:** (65) 63257482



**A Two-Day Seminar on**

# ***DECODING EUROCODE 7 ON GEOTECHNICAL DESIGN***

**organised by Building Engineering Division**

**14 PDUs will be awarded**

**Date : 2 & 3 November 2006**

**Time : 9.00am to 5.30pm**

**Venue : Novotel Clake Quay Hotel  
Phoenix Ballroom (Level 6)**

## SYNOPSIS

With the publication of the first part of Eurocode 7 in December 2004, the pressure is now on engineers to become fully acquainted with its Principles and Application Rules. This training course explores and explains the new European design standard for geotechnics and features extensive case studies, design walkthroughs, and workshops.

The course touches on the complete suite of ten Structural Eurocodes, explaining the engineering concepts shared by structural and geotechnical design. It gives a detailed discussion of key new features of both parts of Eurocode 7 – general rules for design (Part 1) and ground investigation and testing (Part 2). The important issue of how to select “characteristic” ground properties is analysed in depth by way of a case study. Finally, the implications for the engineering profession and the construction industry as a whole are discussed.

There will be differences between the current British practices and the European practices. This seminar is the first part of the Eurocodes Seminar Series to prepare the construction industry and design practices in Singapore for the transition and changes for the adoption of the Eurocodes.

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### Speaker Profile

#### Dr Andrew Bond, MA MSc PhD DIC CEng MICE

Dr Bond has been actively involved in drafting key elements of Eurocode 7. He is one of the UK’s representatives on *CEN TC250/SC7*, the committee responsible for producing Eurocode 7, and is the former chairman of the European Geotechnical Society’s *Technical Committee 10 for the Evaluation of Eurocode 7*. He is a member of BSI committee *B/526 Geotechnics*, which is responsible for the preparation of the UK National Annex for Eurocode 7.

Dr Bond served on the committees that prepared the *National Strategy for Implementation of the Structural Eurocodes (2004)* and the forthcoming CIRIA report, *Eurocode 7 – differences from practice*. He co-authored the chapter on Eurocode 7 in the BSI *Guide to Structural Eurocodes for students of structural design (2004)* and has co-written the forthcoming Concrete Centre guidance *How to design concrete structure to Eurocode 2 – Retaining Structures*.

Dr Bond has delivered numerous technical courses and lectures on the Structural Eurocodes in general and Eurocode 7 in particular. These include: the Institution of Structural Engineers’s *Design of foundations to Eurocode 7* and *Half-day Seminar on Eurocode 7*; Professional Solution’s one-day courses on *Eurocode 7 – managing the change* and *Eurocode 7 – making it work*; Thomas Telford’s two-day course *Geotechnical design to Eurocode 7*; Geocentrix’s one- and two-day courses *Decoding Eurocode 7*, which have been delivered to Atkins, Entec, Gifford, Haskoning, Hyder, and Scott Wilson; and Geocentrix/Atkin;s one- and two-day courses *Decoding the Structural Eurocodes*, delivered publicly and to the UK’s Health and Safety Executive. In total, he has delivered courses on the Eurocodes to almost 1000 engineers.

## TOPICS OUTLINE

### 1. BASIS OF DESIGN

- The Structural Eurocodes
- Eurocodes – basis of structural design
- Eurocode 7 – general rules

### 2. VERIFICATION OF STRENGTH

- Verification of strength
- Spread foundation
- Pile foundation
- Retaining structures

### 3. VERIFICATION OF STABILITY

- Verification of stability
- Worked example – static equilibrium

### 4. VERIFICATION OF SERVICEABILITY

- Verification of serviceability
- Worked example – settlement of footing

### 5. DESIGN BY TESTING

- Eurocode 7 – design assisted by testing
- Worked example – ground investigation

### 6. GROUND CHARACTERISATION

- Ground characterisation
- Worked example – characteristic value

### 7. IMPLICATION FOR CURRENT PRACTICE

- Changes to current design practice
- Consequences for engineering practice