



DESIGNATION OF PERMISSIBLE LIMIT STATES

DE **COD** **ING**

Shallow foundations

EURO **CO** **DE**

Geocentrix
www.geocentrix.co.uk

7

Eurocode news

The de facto international standard?	2.4.7.3.4.1 Paragraph allowing choice of Design Approach	No need for Eurocode haste	10 Codes in the Structural Eurocode suite	10,000 European standards published by CEN by mid-2006
Bigger challenge than metrication	New Eurocode will encourage innovation	2010 Last date for adoption of Structural Eurocodes	Factors of Ignorance?	29 National members of CEN
Cost to the UK of not implementing the Euro codes	2 Parts to EN 1997	89/106/CE Official designation of the Construction Products Directive	EN 1997 Official designation of Eurocode 7	A tempestuous wind, called Euroclydon
Eurocodes enable creativity	Codification for codification sake	58 Parts in the Structural Eurocode suite	1 The Design Approach specified by the UK National Annex for use in the United Kingdom	3 Design Approaches for GEO limit states
	Too high a cost?	UK still not ready for Euro concrete codes		

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Understand, analyse, and assess

Geotechnical engineering is...

“the art of using soils whose properties we do not really understand to form and to support structures we cannot really analyse, so as to withstand forces which we cannot really assess, in such a way that the public does not really suspect”

Professor Noel Simons, Inaugural Lecture, University of Surrey
(with apologies to Professor Eric Brown, Imperial College)

Programme for the day

Morning

09.30 Basis of geotechnical design
11.00 *Coffee*
11.30 Design of footings
12.15 Strip footing on clay (workshop)
13.00 *Lunch*

Afternoon

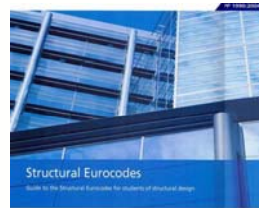
14.00 Design of gravity walls
14.45 T-shaped gravity wall with dry fill
(workshop)
15.30 *Tea*
16.00 Design of slopes and
embankments
16.45 Road cutting using design charts
(workshop)
17.15 Summary and conclusions
17.30 *Close*

Dr Andrew Bond MA MSc PhD DIC MICE CEng

Managing Director, Geocentrix
Director, Geomantix Ltd
Visiting Lecturer, Surrey University

Eurocode experience
Member Eurocode 7 maintenance committee
UK delegate GEN TC250/SC7 (Eurocode 7 committee)
Member BSI committee B526
Vice Chairman European Regional Technical Committee
10 for Implementation of Eurocode 7

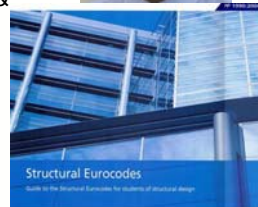
Co-author of ...
'Decoding Eurocode 7' (2008), Taylor and Francis
Chapter 7 PP1990 ('Extracts from the Structural
Eurocodes'), BSI
Former member National Strategy Committee for
Structural Eurocodes
Member Steering Group CIRIA RP 701
Invited speaker on Eurocode 7 to BGA, NCE, IStructE,
Highways Agency, HSE, Singapore BCA, University of
Cape Town, Singapore LTA



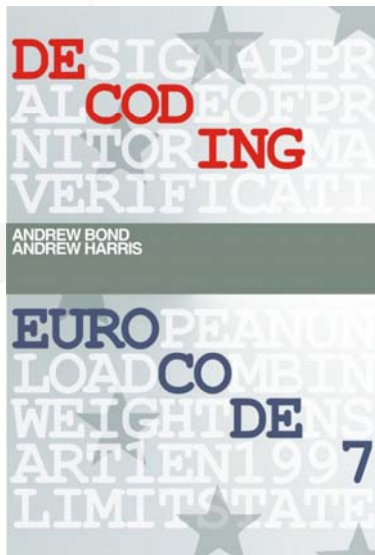
Mr Andrew Harris MSc DIC MICE CEng FGS

Director, Geomantix Ltd
Senior Lecturer, Kingston University

Eurocode experience
Co-author of ...
'Decoding Eurocode 7' (2008), Taylor and Francis
Chapter 7 PP1990 ('Extracts from the Structural
Eurocodes'), BSI
Trainer for Geocentrix, IStructE/ Professional Solutions, &
Thomas Telford/Eurocode Expert
Teaching experience
Lecturer (1985-2004) and Associate Dean (2000-4) at
Kingston University
Author of CPD courses in geotechnical design & pile
design for Kingston University and IStructE/
Professional Solutions
Consulting
Regional Manager at CL Associates (2004-6)
Design and execution of geotechnical and contaminated
land investigations
Various projects for Atkins, Tony Gee, Knapp Hicks,
Powerbetter, and others



'Decoding Eurocode 7'



Book published August 2008

Key features

Covers ENs 1997-1 and -2, plus relevant parts of other Eurocodes

Also covers associated execution and testing standards

Explains key principles

Illustrates application rules with real-life case studies

Material extensively tested on training courses over 5 years

Authors Andrew Bond (Geocentrix) and Andy Harris (Geomantix)

Published by Taylor and Francis in hardback, with colour section

ISBN: 9780415409483

Jul-09

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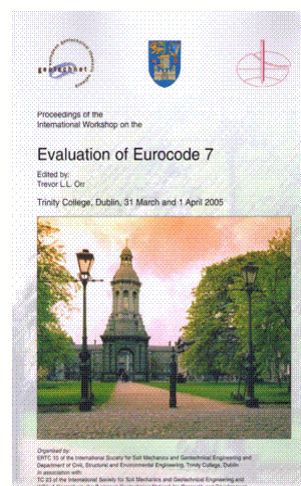
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ERTC10 Examples and 'Model Solutions'

International Workshop held in Dublin in 2005
10 examples & 'model solutions' presented

1. Pad foundation with vertical central load
2. Pad foundation with inclined eccentric load
3. Pile foundation designed from soil parameter values
4. Pile foundation designed from pile load tests
5. Cantilever gravity retaining wall
6. Embedded retaining wall
7. Anchored retaining wall
8. Uplift of deep basement
9. Failure by hydraulic heave
10. Road embankment on soft clay

Proceeding can be ordered from:
[www.tcd.ie/civileng/staff/t_orr/Eurocode 7.pdf](http://www.tcd.ie/civileng/staff/t_orr/Eurocode%207.pdf)



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8

Presentations

Lectures

[Basis of geotechnical design](#)
[Design of footings](#)
[Design of gravity walls](#)
[Design of slopes and embankments](#)

Workshops

[Strip footing on clay](#)
[T-shaped gravity wall with dry fill](#)
[Road cutting using design charts](#)

'Decoding the Eurocodes' blog



Web log (blog) started May 2006
Website: www.eurocode7.com
Aim to post articles at least once a month

Categories include:

- BGA
- Books
- BSI
- Eurocode 3
- Eurocode 7
- ICE
- IStructE
- Seminars
- Singapore
- Structural Eurocodes
- Training courses

I think I found the problem ...



"I think I found the problem with your spreadsheet -- it's a sudoku."

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11

VERIFICATION
DESIGNATION
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Decoding Eurocode 7

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ART 1 EN 1 99 **7**
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