



# GEOTECHNICAL SEMINAR

JOINTLY ORGANIZED BETWEEN  
GEOTECHNICAL SOCIETY OF SINGAPORE (GEOSS)  
& CENTRE FOR SOFT GROUND ENGINEERING



## Common Mistakes in Designing of Piles Subjected to Downdrag

*by*

**Wong Kai Sin**

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**(PDU pending approval)**

**Date:** Tuesday, 25 January 2011  
**Time:** 6:30pm Reception  
7:00pm Seminar  
**Venue:** **Engineering Auditorium**  
Faculty of Engineering  
National University of Singapore

### SYNOPSIS

Negative skin issue is frequently encountered in many projects in Singapore. CP4:2003 provides a valuable guideline but it also left many questions unanswered. That leads to different interpretations of the code -- some are acceptable but others are not. Contractors and designers seem to have very different interpretations. This talk addresses some of the issues related to the downdrag on piles such as location of neutral point; negative skin friction computation; mobilisation factor; pile weight; factor of safety; concrete grade; pile load test and downdrag on piles beneath JGP slab, etc.

### THE SPEAKER

WONG Kai Sin graduated in 1972 with a BS degree from the University of Illinois. He received his MS and PhD degrees from the University of California at Berkeley in 1975 and 1978 respectively. He practiced geotechnical engineering in California before joining NTU in 1984. He retired from NTU last year is currently full time in consultancy works. His major areas of interest are deep excavations, deep foundations, slope stability, soil improvement, land reclamation and soil-structure interaction problems.

For catering purpose, please confirm your attendance by reply e-mail to: [geoss@nus.edu.sg](mailto:geoss@nus.edu.sg)

\*\*\*\* Admission is free for members of GeoSS. Non-members who join as members (S\$60 per annum) on the spot will have their membership till Dec 2011 \*\*\*\*

Visitors may park their cars at the cashcard operated Car Park 2A opposite Blk E3A. Take note that Car Park 3B (Kent Vale) will be permanently closed with effect from 28 February 2010 to facilitate the expansion of Kent Vale Estate.