



GEOTECHNICAL SEMINAR

Jointly organized by Geotechnical Society of Singapore (GeoSS)
Tunnelling and Underground Construction Society (TUCSS)
Centre for Soft Ground Engineering (CSGE)

Modern NATM Techniques in Urban Tunnelling

by

Dr. Kurt Zeidler

Principal and owner of Gall Zeidler Consultants, Virginia

(PDU pending approval)

Date:	Wednesday, 28 July 2010
Time:	6:30pm Reception 7:00-8:00pm Seminar
Venue:	LT7A Faculty of Engineering National University of Singapore

SYNOPSIS

The ever growing demand for underground space in urban areas forces engineers to build tunnels in highly congested areas with problematic ground conditions. Modern ground treatment and tunnelling methods are continually being developed to tackle the problems involved with urban tunnelling. NATM is one frequently used tunnelling method that has been adjusted over the past decades to suit the requirements of modern urban tunnelling.

Examples which show a variety of means and methods were selected for this presentation. Though the examples highlight different solutions, the primary design goals are similar: (1) Limitation of settlements and protection of structures above and surrounding the new tunnels; (2) Tunnel face and structural stability in soft ground; and (3) Groundwater management. Projects to be presented in this Seminar include: (1) Dulles Corridor Metrorail Corridor Project, VA, USA; (2) Victoria Station Upgrade, London, UK; (3) King's Cross Station Upgrade, London, UK; (4) Fort Canning Tunnel, Singapore; and (5) Russia Wharf Tunnel Boston, USA

THE SPEAKER

Dr. Kurt Zeidler has 29 years of experience in geotechnical engineering, project management, design and design checks, underground construction and rock soil slope stabilization projects. He is called upon as an expert consultant for projects all over the globe, including the United States, Europe, North Africa, Australia, and Asia. His primary expertise lies in the design of modern excavation and support systems for tunnels, underground stations, and caverns in hard rock and soft ground in urban areas.

He is currently principal and owner of Gall Zeidler Consultants with headquarters in Ashburn, Virginia. He was involved in many major projects including Trans Hudson Express, NJ, USA; Victoria Station Upgrade, London, UK; Cross Rail Project, London, UK; Sound Transit, Beacon Hill Station, Seattle, Washington, USA; Dulles Corridor Metro-rail Project, Vienna, Virginia, USA; Shepherd's Bush Station Upgrade, London, UK; King's Cross Station Redevelopment, London, UK; No. 7 Subway Line Extension, New York; East Side Access Project, New York; Athens Metro, Greece.

For registration and catering purpose, please confirm your attendance by reply e-mail to: geoss@nus.edu.sg

****** Admission is free for members of GeoSS and TUCSS. Non-members who join as GeoSS members (\$60 per annum) on the spot will have their membership till Dec 2010 ******

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.