

INTERNATIONAL CONFERENCE AND EXHIBITION ON TUNNELLING AND TRENCHLESS TECHNOLOGY

“Tunnelling and Trenchless Technology in the 21st Century”

7 – 9 March 2006

Sheraton Subang Hotel & Towers, Subang Jaya
Selangor Darul Ehsan, MALAYSIA

Organised by:



BEM approved
CPD hours = 20.
Ref. no.
IEM05/HQ/319/S

The Institution of Engineers, Malaysia
Tunnelling and Underground Space Technical Division

Co-sponsors:



INTRODUCTION

Following the successful Trenchless and Tunnelling Conferences held in Malaysia in 1994 and 2000, The Institution of Engineers, Malaysia (IEM) has decided to organize another conference on 7 – 9 March 2006.

The theme chosen “Tunnelling & Trenchless Technology in the 21st Century” will enable all participants to gain an insight into the methodology and the application in these areas as we move into the 21st Century.

The conference covers:-

- ▶ Tunnelling projects – this includes past and present projects;
- ▶ Collaboration among researchers, governments, developers, consultants, contractors and specialist tunnel and trenchless contractors;
- ▶ Standards, legal, social, economic, risk management and related topics use of underground spaces.
- ▶ Special focus on Stormwater Management and Road Tunnel (SMART); several papers and site visit

KEYNOTE ADDRESS

1. **Prof. Dr. Raymond L. Sterling (USA)**
Professor of Civil Engineering, Louisiana Tech University
Past Chairman, International Society for Trenchless Technology (ISTT)
Co-Senior Editor, Tunnelling & Underground Space Technology
“Installing & Rehabilitating Lateral Services - An Important but Multi-Facet Problem”

2. **Prof. Kalman Kovari (Switzerland)**
Consultant and former Professor for Tunnelling,
Swiss Federal Institute of Tehcnology, Zurich
“Urban Tunnelling in Soft Ground Using TBMs”

SPECIAL LECTURE

1. **Mr. Piergiorgio Grasso (Italy)**
President, Geodata SpA
International Tunnelling Association Representative
“The Challenge for Long Distance Water Conveyance Tunnels”

2. **Datuk Ir. Haji Keizrul bin Abdullah (Malaysia)**
Director General of Department of Irrigation and Drainage Malaysia
“SMART Tunnel Project”

CONFERENCE THEME

Tunnelling and Trenchless Technology in the 21st Century

This conference is aimed at providing a forum for practicing professionals – engineers, consultants, contractors, researchers, academicians, manufacturers and suppliers to share their experiences, research, studies and views so as to contribute to the advancement of Tunnelling and Trenchless Technology generally and particularly in Asia. Wide range of high quality scientific and technical papers of International or Regional significance on Tunnelling and Trenchless Technology is expected on the following themes:

- * Tunnelling to include process, operation, ventilation and maintenance.
- * Trenchless Technology such as micro-tunnelling pipe jacking, directional drilling and rehabilitation.
- * Related areas such as detection, inspection services, robotic development, sewer services and structural aspects.
- * Safety quality and legal aspects.
- * Machine development and designs, latest models presentation from manufacturers of tunneling and related machines.
- * Geotechnical aspects with particular reference to tunnelling and trenchless technology.
- * Research and recent development and progress related to tunnelling and trenchless technology.

EXHIBITION

A technical exhibition will be organized as an integral part of the conference. Project experience, design solutions and application of tunneling and trenchless technology and state-of-the-art information will be highlighted. Only few booths are still available. Please book early to avoid disappointment.

SOCIAL PROGRAMME

Accompanying persons will enjoy a memorable experience with local tours, cultural delights, shopping and eating.

OFFICIAL LANGUAGE

The official language of the conference will be English.

TECHNICAL VISIT

Technical site visit to SMART Tunnel on 9th March 2006 will be arranged for the participants on a first-come-first-serve basis.

VENUE

Sheraton Subang Hotel & Towers, Subang Jaya, Selangor Darul Ehsan, MALAYSIA.

REGISTRATION FEE

Author	RM 370.00
IEM Member	RM 670.00
Non-member	RM 770.00
IEM Graduate member	RM 370.00
IEM Student member	RM 100.00
Spouse registration	RM 350.00

Early Bird Registration (before 1st February 2006)

IEM Member	RM 570.00
Non-member	RM 670.00

Notes: 1 USD= approx RM3.8
RM means Malaysian Ringgit

All registration fees must be FULLY paid on registration for the Conference. The Organizing Committee reserves the right to prohibit participant(s) who have not paid their registration fees from participating in the Conference.

HOTEL ACCOMMODATION

Name of Hotel	Contact Number	Superior room	Deluxe Room	E-mail & Website
Sheraton Subang	Tel: +603-50316060 Fax:+603-50319694	RM220.00++	RM260.00++	subang.reservations@sheraton.com www.sheraton.com/subang
Holiday Villa Subang	Tel: +603-56338788 Fax:+603-56337449	RM210.00++	RM230.00++	hvs@holidayvillasubang.com.my www.holidayvillasubang.com.my
Sunway Lagoon Resort Hotel	Tel: +603-74928000 Fax:+603-74928006	RM195.00++	RM320.00++	slrh@sunway.com.my www.sunway.com.my

Please book your room reservation directly with the hotel of your choice.

Rates indicated are inclusive of breakfasts and subject to 5% Government Tax and 10% Service Tax. Please note that the published rates are subject to changes.

ORGANISING COMMITTEE

Ir. Keith Cowling	Chairman
Ir. Dr Ooi Teik Aun	Advisor
Ir. Cheng Kim Hua	Advisor
Ir. Hoo Choon Sean	Deputy Chairman
Ir. Neo Boon Kheng	Secretary
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Ir. Saw Hin Seang	Committee Member
Ir. Param Sivalingam	Committee Member
Assoc. Prof. Tan Boon Kong	Committee Member
Mr. Dennis Nga Diong Hing	Committee Member
Ms. Bhavani Krishna Iyer	Committee Member
Mr. David R.Parks	Committee Member

ENQUIRIES

All enquiries and correspondence are to be sent to:-

Conference Secretariat
Tunnelling and Trenchless Technology
The Institution of Engineers, Malaysia
Bangunan Ingenieur, Lots 60/62, Jalan 52/4
P.O.Box 223 (Jalan Sultan)
46720 Petaling Jaya, Selangor Darul Ehsan
MALAYSIA

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Fax number	+ (603)79577678
E-mail	Tunnel2006@iem.org.my
Website	http://www/iem.org.my

LIST OF TECHNICAL PAPERS (subject to change)

1. Raymond L. Sterling
Installing & Rehabilitating Lateral Services – An Important but Multi-Facet Problem.
2. Kalman Kovari
Urban Tunnelling in Soft Ground Using TBMs.
3. Piergiorgio Grasso
The Challenge for Long Distance Water Conveyance Tunnels.
4. Keizrul Abdullah
SMART Tunnel Project
5. A. Kuliczkowski, E. Kuliczowska, L. Orman
Problems with Choosing Optimal Methods of Trenchless Renovation of Sewage Systems.
6. A. Terry, S. Tujigami, K. Mafune, A. Dkubo, B.K. Neo
Soil Conditioning and Cutter Arrangement for Earth Pressure Balanced Tunnel Boring in the Kenny Hill Formation for the Pantai Trunk Sewer.
7. P. Barnett, S. Tujigami, K. Mafune, M. Hosoi, B.K. Neo
TBM Operation Data Logging and Guidance System for the Kawasaki EPB TBMs used in the Construction of the Pantai Trunk Sewer.
8. O. Thoren
Construction of Shaft and Cable Tunnel I.D. 2.6m Vibhavadi, Bangkok
9. G. Bell
Pipe Development for Microtunnelling/Pipe jacking Applications in the Middle East.
10. E.U. Elotz
Sewerage Tunnels in Singapore.
11. H.J. Nagl & E. U. Klotz
First Experience using a Dual Model Pipe Jacking Machine in Extremely Variable Ground Conditions.
12. G. N. Kribanandan & H.K.Yeoh
The Requirements for High Performance Concrete for the Innovative Storm Water and Road Tunnel (SMART) Project.
13. M. Neuenschwander, B. Stempfel & M. Bianchi
Information Management and Time & Cost Control of Underground Projects: Lessons Learned from the Transalpine Tunnels in Switzerland.
14. D. Beckmann & R Stein
Mathematical Simulation of Pipe Stresses in Difficult Jacking.
15. R Stein, & Trujillo-Alvarez R.
Failure analysis and Condition Assessment of Sewers and Mains using Fuzzy-Logic.
16. S. Khazaei , W. Wu, H. Shimada & K. Matsui
Numerical Analysis of Surface Settlement in using Pipe-Roof Method for Shallow Tunneling in Urban Areas.
17. N. Shirlaw, D. Wen, & J. Ong
The Importance of the Choice of Gasket Type and Grout Mix in Segmental Tunnel Linings.
18. C.H. Gan, , S.F. Lai & T.W. Chang
Jacking of 2.4m Diameter Drainage Pipe Culverts under an Expressway Embankment.
19. G. Nord
TBMs Drill & Blast, The Choice of Tunnelling Method
20. M. Zelenka & J. Svoboda
Highway Tunnel Valik – Experiences of Realization.
21. A. Holman
Pipe Jacking for Sewer Networks on National Sewerage Project Phase 1 – Package 1.
22. T. R. Coss
Auxiliary Equipment for Microtunnelling.
23. P. Nicholas
Microtunneling Method & Development.
24. M. Ross
Modern Advance and Applications of Sprayed Concrete.
25. M. Messing & N. C.Hackston
Modular Concept Guidance System for Full Coverage of Pipe Jacking Application.
26. G.H. Tan, Y.K. Poh, M. Stringer, C.K. Loh, J.M.W. Brownjohn
Improving Instrument Data Quality from Excavation Sites to the Right Person to make the Right Decision at the Right Time
27. H. Juerges
Clay Pipes, Made Solely of Natural Raw Materials, Maintain their Position as the Most Suitable Sewer Pipe in Today's "Plastic World"
28. Ting W.H., Ooi T.A. & Tan B.K.
Tunnelling Activities in Malaysia 1995 – 2005.
29. W. Elzink
Compact Pipe – Quality in Pipeline Rehabilitation.
30. E. G. Peach
SSDS 18 Hong Kong.
31. T. Puspanadan
NATM Construction of 820m length Shortcrete Concrete Tunnel in DTSS-T04.
32. Reuben Lamack
Behavior Segmental Lined Tunnel on Overburden Removal – Case Study PUTRA LRT Tunnel.
33. M. Herrenknecht
No-dig Technologies for Urban Infrastructures.
34. H. P. Uffmam
Microtunnelling with Auger Drills for Small Tunnel
35. M. Shigeru , M. Skinbi, Y. Yokoi, K. Nakagawa
Application of Topographic Method to Tunnel Geological Investigation.
36. Yeo H P & B.K. Neo
Removal of Risk in Trial Trenching in Urban Area.
37. Simon S. M. Tan
Geotechnical Aspect of SMART Tunnel.
38. A.W. Darby & R.L. Wilson
Design of the SMART Tunnel.
39. David Wilson & Fiona Ling
Flood Detection System for the SMART Stormwater Channel- Raingauge Network Density Analysis
40. G. Klados
The Selection of the TBMs for the SMART Project
41. Willie Kay
Some Approaches for Stopping Water Ingress into Tunnels
42. G. Klados, Yeoh Hin Kok
The Uniqueness of SMART Project and the Logistics and Construction Challenges encountered for TBM North and South Drive.
43. G. Scotti, P Grasso, A Morino, C Franzoni
Management Of Risk in Tunnelling - Web-GIS based Platform for the Monitoring and Control of Tunneling and Construction Variables: Case History.
44. Yeoh Hin Kok & Kenny Lim
Construction of Double Decker in a Stormwater Tunnel.
45. Yeoh Hin Kok, Kribanandan Muhamad, Ahmad Kailani
Long Distance Pumping and Control of Thermal Cracks for Double Decker in Tunnel.
46. Simon S.M. Tan, C.S. Lim & T.W. Chang
Earth Retaining System for the Shaft Excavation of SMART Tunnel.
47. Ng K H, David N. Welch, Teoh S G
Stormwater Management & Road Tunnel (SMART)- A Bypass Solution to Mitigate Flooding in KL
48. Y.W. Yee, V R Raju
Grouting in Karst Limestone for SMART Tunnel Project.

REGISTRATION FORM

Tunnel Conference Secretariat

The Institution of Engineers, Malaysia
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No.	Name (In BLOCK letters)	IEM No.	Amount
Total			

I/We will also participate in the Technical Visit on **9 March 2006**.

I/we wish to register the above participant(s) and enclose herewith a cheque no. _____ for the sum of RM _____ issued in favour of **"IEM-TT Account"**

Payment by Credit Card is also acceptable.

I/we understand that the registration fee is not refundable if I/we withdraw after my/our registration is/are accepted by the Organising Committee but substitution of participant(s) will be allowed.

Name of Organisation: _____

Address: _____

Telephone (Off.): _____ Fax: _____

Email: _____ Phone no.: _____

Contact person: _____ Designation: _____

Signature: _____ Date: _____

Please charge my Credit Card (tick one)

Visa MasterCard

Card Number

Expiry date: _____ Amount: RM _____

Name on Credit Card _____

Signature of Applicant: _____

Date: _____

