1998 15th Canadian Tunnelling Conference

Boro Lukajic
President’s address

D. Brox, H. Hagedorn
Extreme deformation and damage during the construction of large tunnels

D.E. Coulter, J.P. Haile, F. Margitan, G. Dixon
Design build contractual arrangements for the Mamquam River hydroelectric project power tunnel

P. de Courval, A. Grenon, D. Nguyen
The SM-3 power project: a case history of large underground excavations

G.L. Dollinger, H.J. Handewith, C.D. Breeds
Use of the punch test for estimating TBM performance

R. Galler
Gripper design of hard rock TBMs - studies for economical tunnelling

B. Garrod, R. Delmar
Earth pressure balance TBM performance - a case study

H.H. Hartmaier, T.W. Doe, G. Dixon
Evaluation of hydrojacking tests for an unlined pressure tunnel

P.S. Hobden
Design-build, "friend or foe"

Partnering under pressure-San Diego’s South Bay Ocean Outfall construction experience

J. Kaplin, R. Dowdell, V. Tokle
Directional core drilling for the Metro West water supply tunnel

W.D. Leech, C.R. Linamen, D.S. Hubenak
Addison airport tunnel project

F. Lemy, J. Hadjigeorgiou, F. Charette
Tat actuel de l’utilisation du boulonnage dans les mines souterraines en roche dure du Quebec

D. Milne, J. Hadjigeorgiou, R. Pakalnis
Rock mass characterization for underground hard rock mines

B.N. Pennington, J.R. Collins
Recent contracting practices - Sheppard Twin Tunnels project
H. Quick, V. SchOttner, J. Michael, R. Katzenbach,
High speed railway line Cologne to Frankfurt, tunnelling under a highway intersection

B.A. Rebane
Legal implications of emerging contractual relationships in Canadian construction

B.D. Ripley, P.A. Rapp, D.R. Morgan
Shotcrete design, construction and quality assurance for the Stave Falls tunnels

Communications:

Memon
Cracking of shotcrete linings (NATN for tunnels)

D.C. Wyllie, F. Huber, D. Allen, A.G. Dell
Vancouver tunnels

Papers Selected from the 8th Congress of the International Association for Engineering Geology and the Environment:

K. Aissaoui, M. Alheib, J.P. Piguet, Y. Derrien
Amélioration de l’appréciation des affaissements dans les mines à l’aide des approches empiriques, numériques et analytiques

M. Alber
Design of high speed TBM drives

J. Brantmark, A. Taube, H. Stille
Excavation of a sub-sea road tunnel at Hvaffl6r6ur, Iceland

Cadiz, A.M. Lawson, W.H. Godwin, R.P. Bell
Geotechnical site investigation of the Arrowhead east and west tunnels, San Bernardino Mountains, California

P. Chryssanthakis, N. Barton, F. Loset, A. Dallas, K. Mitsotakis
Excavating in weak rocks with the Norwegian Method of Tunnelling (NMT)

D. Estoppey, C. Schindler
Geological aspects of swissmetro, a long-distance high-speed transport system in the shallow subsurface

G.E. Korbin
Claims and tunnel boring machines: contributing factors and lessons learned

P.G. Marinos, M.G. Novack, M.D. Benissi, G.D. Rovolis, I.S. Papadatos, A.A. Antoniou, K.I. Angelidaki
TBM excavation through weak and heterogeneous rock masses; a geological assessment for engineering purposes in the Athens Metro case

S. Mitani
I.A.E.G. Keynote Address: The state of art of TBM excavation and probing ahead technique

K. Nakagawa, T. Shidahara, Y. Eto, A. Nozaki
Field study on geohydrological aspects of deep sedimentary rock for compressed air storage

R.M. Nolting, F. Duan, Y. Sun
Ground support for emplacement drifts at Yucca Mountain

N.M. Sundaram, I. Komoo, A.G. Rafek
The influence of rock mass properties in the assessment of TBM performance

Y.Y. Tseng, S.L. Wong, B. Chu, C.H. Wong
The Pinglin mechanised tunnelling in difficult ground

K. Thuro, R.J. Plinninger
Geological limits in roadheader excavation - four case studies

B. Windelschmidt, J. Tiedemann
Slurry shield tunnelling, cut-and-cover and caisson sections for a new north-south railway tunnel in the centre of Berlin - geotechnical experiences, problems and solutions

Communications:

F.A. Gil Escobar, S. Yokota
Structural characteristics around the Abejorral marble body and their influence on the instability for chambers of the El Toro mine, Antioquia, Colombia

T. Ohta, H. Saito
Core disking and "rockburst" in soft tuffaceous rock masses of Yotsuyaku formation at Iwate tunnel, northeastern Japan

A.P. Takacs, R.B. Clay
Lessons from a NA TM (SCL) breakthrough in difficult geological conditions