

## **1994 12th Canadian Tunnelling Conference**

**Boro Lukajic**

President's address

**Koichi Ono**

Tunnels and Underground Developments in Japan

**A.W. Malone**

The Use of Underground Space in Hong Kong

**Randall J. Essex**

Means of Avoiding and Resolving Disputes During Construction

**Yu Cheng**

Underground Construction in Taiwan

**Bruce McKinstry**

Fast Tunnelling with Drill & Blast - Tunnel and Shaft Construction at the Sixth

**Terry Karlsen**

Improving Productivity of Drilling Jumbos Through Automation

**M. Mohkam, T. Ciblac**

Face Stability of a Tunnel as a Function of the Length and Height Free of Pressure

**Richard J. Robbins**

Subsea Tunnels in Bad Rock Conditions

**Jon W. Graham**

Tunnel Boring at Magma Copper Company's San Manuel Mine

**S. Finnsson, H. Janzon, B. Khalighi**

Selecting Drive Systems for Hard Rock TBMs

**Peter Kogler, Karlheinz Gehring**

Innovative TBM-Technology for Two Projects in Korea

**Stephen J. Klein, Michael T. Stift, Mark E. Schmoll**

Hard Rock Boring in San Diego

**John A. McKee, Stanley C. MacGillis, Stephen R. Wilson**

Hydrogeological Considerations and Groundwater Control for the West Rideau Collector Sewer - Phase III

**Gerd Sattel, William T. Baker**

A Seismic Measurement System for Tunnel Construction

**J. Hadjigeorgiou, P. Germain, Y. Potvin**

In-situ Estimation of Rock Joint Alteration

**Robert J. Smith**

Use of Dispute Review Boards for Tunnel Projects

**C.T. Chang, J.J. Wang, T.S. Pan**

Shield Tunnelling in Taipei Mass Rapid Transit Systems

**Marty Oatman, Mike Byers, Alan Larson**

West Seattle Tunnel - Risk or Opportunity

**M. Mohkam, A. Reda**

Confining Pressure, EPBS Major Difficulty

**Javier V. de la Garza, Miguel Angel Martinez Corona**

One Kilometer of Tunnelling for Subway Line Nr 2, in Monterrey, Mexico

**G.W. Kuzyk, D.P. Onagi, S.G. Keith, G.R. Karklin**

The Development of Long Blast Rounds at AECL's Underground Research Laboratory

**Ivan P. Lieszkowszky, James Ng, Erik Dullerud**

Simco Street Sewer Tunnel in "Squeezing" Shale Rock in Toronto

**J.C. Bruce, R.T. Reynolds, K. Biebach**

Cassiar Connector Project: Tunnel and Tunnel Systems

**Robert M. Ng, Anne S. Poschmann**

The Geotechnical Challenges for the Toronto Subway System

**J.N. Shirlaw, J.R. Busbridge, X. Yi**

Consolidation Settlements over Tunnels: A Review

**Bernie W. Martin, Duncan G. MacLennan**

The New St. Clair River Railway Tunnel

**N. Harrison, R.E. Kerrigan, D.G. MacLennan**

The New St. Clair River Railway Tunnel

The Project - Concept and Construction

**G.J.E. Kramer, P.D. Tavares, E.R. Drooff**

Settlement Protection Works for the  
New St. Clair River Rail Tunnel

**Gary C. Allen**

Inverted Plumb Lines at the Superconducting Super Collider

**S.J. Rigbey, J.H.S. Huang, C.M.K. Yuen and M.H. Boase**

Exploratory Audit Program for the Niagara River  
Hydroelectric Development

**Curt Wichmann, Oyvind Sunde**  
Frost and Watersealing in Road Tunnels  
by Cladding in Scandinavia