

# CONSTRUCTION ON PEAT AND SOFT SOILS

VANCOUVER GEOTECHNICAL SOCIETY



VANCOUVER, B.C.  
JUNE 2, 1995



# **VANCOUVER GEOTECHNICAL SOCIETY**

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**The Canadian Geotechnical Society / La Société Canadienne de Géotechnique**

Cover photo: Pre-Load Fill at the Vancouver International Airport Terminal Expansion



Vancouver Geotechnical  
Society

# CONSTRUCTION ON PEAT AND SOFT SOILS

9th Annual Symposium  
June 2, 1995

Renaissance Hotel Harbourside  
Vancouver, British Columbia

# PROGRAMME

07:30 - 08:20 *Registration (coffee and muffins)*

08:20 - 08:30 *Opening Remarks*

08:30 - 09:30 *Keynote Address No. 1*

**Stability Evaluation During Staged Construction**

Dr. Charles C. Ladd

Professor of Civil Engineering, MIT

09:30 - 10:00 *Morning Session No. 1*

**Investigation and Design of Small Embankments on Soft Clay in Northern Ontario**

Todd E. Martin and Howard D. Plewes

10:00 - 10:20 *Coffee Break and Displays*

10:20 - 12:00 *Morning Session No. 2*

**Peat - The Vancouver Experience**

Sheri Plewes, Phil Karlsson and Brian Willock

**Twitchell Island Levee Improvements, Northern California Delta Area**

Richard C. Sisson and Fred N. Brovold

**Predictions of Seismic Displacements by Finite Element Analysis of a Sensitive Clay Site Near Vancouver, British Columbia**

M. Zergoun and J.A. O'Brien

12:00 - 13:30 *Lunch and Displays*

## PROGRAMME (continued)

13:30 - 14:30 *Keynote Address No. 2*

**Foundation Considerations at Tar Island Dyke**

Dr. Ed McRoberts, Angela Küpper and Andy Small

14:30 - 15:00 *Afternoon Session No. 1*

**Wick Drain Performance at a Site in East Richmond, B.C.**

D.J. Tara and B.E. Hall

15:00 - 15:20 *Coffee Break and Displays*

15:20 - 16:50 *Afternoon Session No. 2*

**Stability of Unpaved Roads on Soft Ground**

O. Sigurdsson and R.J. Fannin

**Design Implications of Soft Soils for Highway  
Improvements Near Victoria**

Ian Pilkington, Stephen Alexander and Don Lister

**Bridge Embankment Design and Construction - An  
Observational Approach**

D. Broomhead and A. Wightman

16:50 - 17:00 *Closing Remarks*

*Unpresented Paper*

**Vibro Concrete Column Construction in Peat / Soft Soil**

Mark A. Koelling