

2011/12 PROGRAM

NOTICE OF FORTHCOMING EVENT

The Canadian Society for Civil Engineering
La Société canadienne de génie civil

CALGARY



April 19, 2012 Dinner Meeting

“Heavy Foundation Design for Industry”

by Robin Tweedie, P.Eng., Thurber Engineering Ltd.

Sponsors: Thurber Engineering, Read Jones Christoffersen

Abstract:

The last decade has witnessed a boom in industrial plantsite development for the oil sands industry. During this time, the introduction of Limit States Design in the National Building Code (2005) has had a significant impact on the design of pile foundations. This presentation will provide a geotechnical perspective of foundation design of heavy industrial plant foundations focusing on the recent oilsand plantsite developments in the Fort McMurray area. This talk will include presentation of recent pile load tests on cast-in-place-concrete piles, Continuous Flight Auger (CFA) piles, driven steel piles and helical piles, and evolution of pile designs based on these results.

About the Speaker:

Robin is a Principal and Senior Geotechnical Engineer with Thurber Engineering Ltd. in Edmonton. He obtained his B.Sc. in Civil Engineering from Queens's University Belfast in 1974 and a Master of Science in Geotechnical Engineering from the University of Alberta in 1976, and has been employed with Thurber since that time. His experience includes geotechnical engineering for industrial plants and he has been active in the Fort McMurray oilsand plants for over 30 years, including the Syncrude Upgrade Expansion. His recent projects include the CNRL Horizon Oilsands plant, Total's Joslyn North Mine project, and numerous SAGD (Steam Assisted Gravity Drainage) plant site developments in the Fort McMurray, Conklin and Cold Lake areas.

The CSCE is a learned society intended to develop and maintain high standards of civil engineering practice in Canada and to enhance the public image of the civil engineering profession.

Schedule

5:30 PM – Cocktails & Registration
6:30 PM – Dinner
7:15 PM – Presentation
8:30 PM – Closing Remarks

Location

Blackfoot Inn
5940 Blackfoot Trail SE

Cost

Students – \$15
CSCE Members – \$30
Non-Members – \$40

Please register your attendance at
www.cscecalgary.ca
at least 24 hours
prior to event.

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