



愛城華人工程師學會

EDMONTON CHINESE ENGINEERS SOCIETY

c/o ASSIST Community Services Centre,

9653 – 105A Avenue,

Edmonton, AB T5H 0M3

Web site: www.eces.cc

JANUARY 2010 TECHNICAL DINNER MEETING

When: January 11, 2010
6:00 PM (Networking)
6:30 PM (Dinner)

Where: 2nd Floor, 9431 Jasper Ave., Edmonton AB
Mirama Restaurant

Topic: **“Use of Launched Soil Nails to Stabilize a Shallow Slope Failure on Urban Access Road 172”**

In the transportation industry there are many methods of slope and embankment stabilization. Traditional soil nailing is one such method, which employs inserting nails into pre-drilled holes, then grouting them into place. A variant of this procedure is launched soil nails (LSN) which uses compressed air to accelerate a 6 m long 40 mm diameter steel nail or rod into the ground at over 350 km/hr. In this case, LSN was employed on an Alberta Transportation project site near the village of New Sarepta about 40 km southeast of Edmonton on Urban Approach Road 172. The failed area was a shallow slope failure approximately 130 m² in size. The LSN solution was ideal for site specific considerations such as nearby utilities, appurtenances and limited access. LSN reduces cost, saves time, reduces public disruptions, reduces environmental concerns, and is a flexible and viable option for stabilizing slopes.

Speakers: **Jermaine Smith, E.I.T.,**
Highway Design Engineer, Transportation Practice

Cost: **\$20 (member) / \$15 (student member)**
\$25 (non-member) / \$20 (student non-member)
– Prices include GST & gratuities

Includes technical presentation and Chinese dinner

Contact: Please register with **Michael Kan, P.Eng.** at
<mailto:technology@eces.cc>
