



The Canadian Society for Civil Engineering

The Canadian Geotechnical Society



London District Section

2008 / 2009 Program

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**GREAT PRICES!**

**Pricing to attend an individual meeting:**

- o **Student**                                 **\$ 10**
- o **CSCE / CGS Member**             **\$ 15**
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(Pricing excludes National Lecture Tour & Labatt's Brewery Tour events.)

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**Standard Dinner Card             \$ 75**

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*Cards can be purchased at the October meeting.*

*Contact Dr. Ernest Yanful @ (519) 661-4069, (Email: [eyanful@eng.uwo.ca](mailto:eyanful@eng.uwo.ca)) for more details.*

**Notes about Meetings Held at the Elephant & Castle Restaurant**

- Location: Elephant & Castle Restaurant, located at King St. and Wellington St. (Galleria Mall). Parking validated in Galleria lot.
- Cash bar is available.
- Networking opportunity commences at 5:45 p.m.
- Dining at 6:30 p.m.
- Presentation at 7:15 p.m., followed by Q & A.

See reverse side for event details.

**2008 / 2009 PROGRAM**

**TUESDAY SEPTEMBER 23<sup>RD</sup>, 2008**

**NATIONAL LECTURE TOUR – THE CONCORDE BRIDGE COLLAPSE**

**SPEAKERS:** Jacques Marchand, Ph.D., P.Eng. and Denis Mitchell, Ph.D., P.Eng., McGill University

**LOCATION:** University of Western Ontario, Spencer Engineering Building, Room 1059

**TIME:** 12:30 p.m. to 1:30 p.m., followed by Q & A session.

**PRICE:** No charge for lecture, lunch is available for \$7 (includes 2 slices of pizza, beverage & choice of danish or fruit). Lunch will be served at 12:00 p.m. **RSVP** for lunch to Cynthia Quintus (Email: [cquintus@eng.uwo.ca](mailto:cquintus@eng.uwo.ca)) by September 18<sup>th</sup>.

**WEDNESDAY OCTOBER 8<sup>TH</sup>, 2008**

**LEAD ISSUES IN LONDON'S WATER SYSTEM**

**SPEAKERS:** Dan Huggins and John Braam, P.Eng., City of London

**LOCATION:** Elephant & Castle

**WEDNESDAY NOVEMBER 12<sup>TH</sup>, 2008**

**INTERNATIONAL DEVELOPMENT INTERNSHIP IN GHANA**

**SPEAKERS:** Taryn Meyers and Tyler Rosen, University of Western Ontario

**LOCATION:** Elephant & Castle

**WEDNESDAY DECEMBER 3<sup>RD</sup>, 2008**

**LABATT'S BREWERY TOUR**

**LOCATION:** Labatt's Brewery, 150 Simcoe Street, London

**TIME:** 6:00 p.m. Pizza dinner & Beer tasting following the tour.

**PRICE:** \$20

**RSVP** to Katelyn Smith (Email: [ksmith@aecon.com](mailto:ksmith@aecon.com)) by October 31<sup>st</sup>

**WEDNESDAY JANUARY 14<sup>TH</sup>, 2009**

**RECENT BRIDGE FAILURES FROM THE MTO'S PERSPECTIVE**

**SPEAKERS:** Wade Young, P.Eng. and Andrew Turnbull, P.Eng. Ontario Ministry of Transportation

**LOCATION:** Elephant & Castle

**WEDNESDAY FEBRUARY 11<sup>TH</sup>, 2009**

**GREENWAY POLLUTION CONTROL CENTRE EXPANSION CHALLENGES**

**SPEAKER:** Olav Natvik, P.Eng., Stantec Consulting Ltd.

**LOCATION:** Elephant & Castle

**WEDNESDAY MARCH 11<sup>TH</sup>, 2009**

**APPLICATIONS OF REINFORCED SOIL SLOPES IN ONTARIO IN CHALLENGING SOIL CONDITIONS**

**SPEAKER:** Michael Simons, P.Eng., Maccaferri Canada Ltd.

**LOCATION:** Elephant & Castle

**WEDNESDAY APRIL 8<sup>TH</sup>, 2009**

**WATER – HOW MUCH A BARREL?**

**SPEAKER:** Pat McNally, P.Eng., City of London

**LOCATION:** Elephant & Castle

**Tuesday September 23<sup>rd</sup>, 2008**

Presenters: Jacques Marchand, Ph.D., P.Eng. and Denis Mitchell, Ph.D., P.Eng., McGill University.

### **National Lecture Tour – The Concorde Bridge Collapse**

On September 30<sup>th</sup> 2006, the southern span of the Concorde Bridge over Highway 19 in Laval, Québec suddenly collapsed killing five people and injuring several others. On October 3, 2006, the Government of the Province of Québec appointed the Johnson Commission of Inquiry to determine the causes of the collapse and to recommend measures to reduce the future risks of such an event. The Commission mandated a group of experts, under the leadership of Jacques Marchand and Denis Mitchell, to identify the causes of the collapse. The technical team conducted a comprehensive assessment of the site conditions using a wide range of techniques and in addition preserved all the key elements of the structure for more detailed investigation. The presentation will review the main aspects of this multidisciplinary investigation that was conducted.

**Wednesday October 8<sup>th</sup>, 2008**

Presenters: Dan Huggins and John Braam, P.Eng., City of London.

### **Lead Issues in London's Water System**

In 2006, the City of London began to offer free testing for lead in customer's tap water. The results of this testing indicated that customers with lead service pipes were experiencing elevated lead levels; in many cases, in excess of the Provincial Standard. Significant media attention followed, which motivated the Government of Ontario to enact sweeping changes to the legislation that regulates Municipal Water Systems. This presentation will chronicle the events that led to these changes, and will explore London's efforts to remediate lead levels at the taps of its customers with lead services.

**Wednesday November 12<sup>th</sup>, 2008**

Presenters: Taryn Meyers and Tyler Rosen, University of Western Ontario

### **International Development Internship in Ghana**

Taryn Meyers and Tyler Rosen are students enrolled in the Civil Engineering and International Development program at the University of Western Ontario. As part of their program requirements, they spent three months in Ghana, West Africa, during May-August, 2008 working on water desalination and waste characterization projects and teaching in a local junior secondary school. Taryn and Tyler will share their experience in Ghana.

**Wednesday December 3<sup>rd</sup>, 2008**

### **Labatt's Brewery Tour (150 Simcoe St., London)**

The CSCE is hosting a tour of the Labatt's Brewery. Admission price (\$20) includes facility tour, pizza dinner, and two hours of beer tasting. The tour will begin at 6:00 p.m.

Tour requirements: Must wear closed-toe, flat-bottomed shoes & tie back long hair. Must be legal drinking age to take part in beer tasting.

**Wednesday January 14<sup>th</sup>, 2009**

Presenters: Wade Young, P.Eng. and Andrew Turnbull, P.Eng. Ontario Ministry of Transportation.

### **Recent Bridge Failures from the MTO's Perspective**

Following the collapse of a bridge in Laval Quebec (2006) and the collapse of the I35 Bridge in Minneapolis (2007), both with tragic consequences, public attention is being focused on the safety of our bridges. As the owner of over 3000 bridges in Ontario, the Ontario Ministry of Transportation is responsible for inspecting and maintaining bridges on Provincial Highways in a safe condition. This presentation will discuss recent bridge failures from the MTO's perspective and describe the events and initial findings that lead to the collapse of the I35 Bridge in Minneapolis.

**Wednesday February 11<sup>th</sup>, 2009**

Presenter: Olav Natvik, P.Eng., Stantec Consulting Ltd.

### **Greenway Pollution Control Centre Expansion Challenges**

The City of London (City) needs additional wastewater treatment capacity to serve planned growth in the southwest quadrant of the City. The original master plan called for a new sewage treatment plant to serve the planned growth with a phase-one capacity of 18 million liters per day at an estimated \$80 to \$90 million for plant and trunk sewers. Before committing to the construction of these new treatment facilities, the City decided to reevaluate the original plan in light of recent city wide growth strategies and advancements in treatment technologies, this time considering expanding treatment at the Greenway Pollution Control Centre. This presentation will provide a summary of the review.

**Wednesday March 11<sup>th</sup>, 2009**

Presenter: Michael Simons, P.Eng., Maccaferri Canada Ltd.

### **Applications of Reinforced Soil Slopes in Ontario in Challenging Soils Conditions**

Reinforced soil slopes have been used throughout Ontario during the past couple of decades. Three projects will be presented where reinforced soil slopes were constructed as part of projects that posed geotechnical challenges. The first is a 3.6 m high, 45° slope in the Windsor area built using geogrid and clay as structural backfill; the second is a 6.3m high, 60° slope using woven wire mesh as reinforcement and built as part of a stormwater management pond; the third is a 5m high, double sided 65° slope built as culvert headwalls over Leda clay in Ottawa.

**Wednesday April 8<sup>th</sup>, 2009**

Presenter: Pat McNally, P.Eng., City of London

### **Water – How Much a Barrel?**

Bottled water, water wars, water scarcity, failing infrastructure, climate change, new contaminants... The previously silent service is now front-page, front & centre on a daily basis. What are the issues? What is being done about it? What should be done?