



The Canadian Society for Civil Engineering

The Canadian Geotechnical Society



London & District Section

2012 / 2013 Program

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Pricing to attend an individual meeting:

- o **Student** **\$ 15**
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*Contact Tom Mara @ (519) 697-1547,
(Email: tom.mara@csce-cgs-london.org) for more details.*

Notes about Meetings

- Location: Fox and Fiddle, located at King St. and Wellington St. (Citi Plaza).
- Parking validated for Citi Plaza lot.
- Cash bar is available.
- Networking opportunity starts 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.

2012 / 2013 PROGRAM

WEDNESDAY SEPTEMBER 19TH, 2012

BROWNFIELD REDEVELOPMENT AND SUSTAINABLE REMEDIATION

SPEAKER: David Harper, P.Geo., Kilmer Group

WEDNESDAY OCTOBER 17TH, 2012

ACCELERATED REPLACEMENT OF THE WHITEMANS CREEK BRIDGE

SPEAKERS: WADE YOUNG, P.ENG., AND JASAN BOPARAI, P.ENG., MINISTRY OF TRANSPORTATION, ONTARIO

WEDNESDAY NOVEMBER 21ST, 2012

MUNICIPAL DRINKING WATER RESIDUE MANAGEMENT SYSTEMS – BURIED WONDERS

SPEAKER: SANDRA LATORRE, P.ENG., CH2M HILL

WEDNESDAY JANUARY 23RD, 2013

ALTERNATIVE DELIVERY MODEL FOR THE REPLACEMENT OF THE GRAND RIVER BRIDGE AT CAYUGA

SPEAKER: SCOTT REID, P.ENG., MINISTRY OF TRANSPORTATION, ONTARIO

WEDNESDAY FEBRUARY 27TH, 2013

BROWNFIELD REDEVELOPMENT OF FORMER RAIL LANDS – NEW BMO CENTRE INDOOR SOCCER FACILITY

SPEAKERS: SANDRA CARRELAS, P.ENG., GOLDBER ASSOCIATES LTD.

WEDNESDAY MARCH 20TH, 2013

GROUNDWATER DISCHARGE FOR LAKES AND OCEANS

SPEAKER: DR. CLARE ROBINSON, CIVIL AND ENVIRONMENTAL ENGINEERING, WESTERN UNIVERSITY

WEDNESDAY APRIL 17TH, 2013

WINDSOR ESSEX PARKWAY

SPEAKER: JEFF MATTHEWS, P.ENG., DILLON CONSULTING LTD.

Wednesday September 19th, 2012 Presenter: David Harper, P.Geo., Kilmer Group

Brownfield Redevelopment and Sustainable Development

Many brownfield remedial programs are based on the excavation and off-site disposal of soils that may or may not be contaminated. However, treating excavated soil as waste can no longer be considered as a sustainable practice. In 2009, Kilmer purchased a 13-acre brownfield site which had been used since the 1950s for the production and maintenance of aircraft components. Once regulatory approvals were received, the implementation of the remediation plan took place using a variety of sustainable on-site methods that included risk assessment for industrial fill materials, on-site bio-remediation and re-use of treated soil, and the use of soil amendments during backfilling.

Wednesday October 17th, 2012 Presenters: Wade Young, P.Eng., and Jasan Boparai, P.Eng., Ministry of Transportation, Ontario

Accelerated Replacement of the Whitemans Creek Bridge

In 2011, MTO replaced the Whitemans Creek Bridge on Highway 24, near Brantford in seven weeks. This accelerated Bridge Construction (ABC) project used prefabricated components, Ultra High Performance Concrete (UHPC), and Glass Fibre Reinforced Polymer (GFRP) reinforcing to rapidly construct a durable bridge at a reasonable cost. Approximately 90% of the bridge components were prefabricated, including precast abutments, wingwalls, deck elements, approach slabs and steel girders. The presentation will focus on both the design and construction aspects of the project and provide a glimpse of future ABC projects being planned by the MTO.

Wednesday November 21st, 2012 Presenter: Sandra Latorre, P.Eng., CH2M Hill

Municipal Drinking Water Residue Management Systems – Buried Wonders

Integrating new residue management systems into existing sites at two large municipal water treatment plants required innovation to increase public acceptance, reduce space requirements and reduce costs. The features of these unique residue management facilities include taking advantage of gravity, integrating two treatment processes into one tank and partially or completely burying the structures. These features were applied to the new Lake Huron Water Treatment Plant (WTP) Residue Management Facility (RMF). This presentation will describe the unique challenges faced, the solutions applied and the results obtained and then show how these features were used.

Wednesday January 23rd, 2013 Presenter: Scott Reid, P.Eng., Ministry of Transportation, Ontario

Alternative Delivery Model for the Replacement of the Grand River Bridge at Cayuga

Replacing an 88 year old, five span steel truss bridge in an environmentally significant area, while maintaining traffic across the Grand River on Highway 3 requires a unique approach. MTO is using the Construction Manager, General Contractor (CMGC) project delivery model as a pilot project. The CMGC model is the collaboration between the owner (MTO), designer and a contractor to develop an innovative and practical solution for the design and construction of the bridge replacement. This presentation will include reasons for selecting the CMGC model, an overview of how the model works and how the work has unfolded on the Cayuga bridge project.

Wednesday February 27th, 2013 Presenter: Sandra Carrelas, P.Eng., Golder Associates Ltd.

Brownfield Redevelopment of Former Rail Lands – New BMO Centre Indoor Soccer Facility

The City of London approached Golder Associates to assess the feasibility of redeveloping a site near the core of the City that has been vacant since the mid-1990s for a new indoor sports facility. The site was first developed in the late 1880s by Imperial Oil as a refinery and subsequently as a rail yard between 1904 and the 1990s. This presentation will provide an overview of the various phases of site investigation (environmental and geotechnical); the results of the risk assessment and the recommended risk management measures; and a discussion of some of the challenges posed by the project with respect to foundation design, co-ordination with stakeholders and the regulatory process.

Wednesday March 20th, 2013 Presenter: Dr. Clare Robinson, Civil and Environmental Engineering, Western University

The Importance of Groundwater Discharge for Lakes and Oceans

Pollution of coastal waters is an increasingly serious problem due to rapid urbanization, intensification of agriculture and industry, increasing pollutant toxicity and climate change effects. While the impact of rivers on coastal water pollution is generally well characterized, the groundwater pathway is often poorly understood. Field studies combined with modeling will be discussed that provide insight into the physical and biogeochemical processes at the groundwater-coastal water interface that influence the health of shorelines, including the fate and flux of pollutants to coastal waters. Case examples covered will include Moreton Bay (Australia) and the Lake Erie.

Wednesday April 17th, 2013 Presenter: Jeff Matthews, P.Eng., Dillon Consulting Ltd.

Windsor Essex Parkway

Details will be provided at a later date.