

Improving the Description and Characterization of Glacial Successions

for Environmental & Engineering Projects

Dates:

1 & 2 September 2010

Location:

**Mississauga Convention Center
Mississauga, Ontario**

With a field component matching commonly encountered conditions.

Instructors:

Tim Kemmis, PhD, PG
AECOM

Carolyn Eyles, PhD
McMaster University

Dan Kelleher, PG, CIPM
Midwest GeoSciences Group

**16 Contact Hours
(1.6 CEUs)**

*"This course is excellent.
.... it should become the
standard for logging in
glacial deposits."*

- Tom George,
Senior Geologist,
URS Corporation

**midwest
GEOSCIENCES
group**
www.midwestgeo.com

This popular 2-day course addresses current problems facing geologists and engineers working on glaciated terrains across Canada and the United States.



You will apply both fundamental and innovative approaches to improve your understanding and characterization of glacial deposits. Learn how ground water movement and geotechnical properties are controlled by glacial depositional environments and effects of secondary weathering. This is the only course that also applies these techniques to the technical and financial advantages of field data analysis.

CONFIDENTLY CHARACTERIZE SEDIMENTARY SEQUENCES

- Learn to recognize glacial depositional environments, and why it's important
- Prepare meaningful sediment descriptions on boring logs
- Differentiate deposits from a succession of multiple glacial advances
- Discover the implications of weathering zones and secondary joint features
- Learn the sedimentary characteristics of the local glacial stratigraphic framework
- Begin using a rationale for geotechnical sampling and testing that is efficient for both project objectives and site stratigraphy
- Learn the importance of characterizing ground water movement through stacked fine-grained glacial units
- Understand proper monitoring well placement and differentiate isolated sand lenses from laterally-extensive monitoring zones with minimum number of borings
- Discover recent trends in 3D mapping and modeling
- Begin managing project budgets wisely by making informed field judgements

IMPROVE YOUR FIELD & ANALYSIS SKILLS

A continuous soil core sampled on-site will be used to:

- Examine the deposits and practice recognizing sequences from multiple glacial advances
- Learn field recognition of a weathering zone
- Practice classifying and describing sediments to improve boring log descriptions
- Improve field characterization skills for meaningful well screen placement and geotechnical testing that is diagnostic of both site stratigraphy and project objectives
- Share your observations about applying these skills to professional projects

REGISTRATION FORM

Improving the Description and Characterization
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1 & 2 September 2010

Last Name: _____ First Name: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____ Email: _____

*For early registration, payment must be received before 20 August 2010. Cancellations may be made before 20 August 2010 however, 25% of the fee will be charged. No refunds. Govt. and student discounts available. Complete registration information at www.midwestgeo.com. Questions: 763.607.0092 or email: info@midwestgeo.com

Fee Register Now \$780 USD
 After Aug 20 \$995 USD
Options: Day 1 only (before Aug 20) \$500 USD

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Mail completed form with payment to: Midwest GeoSciences Group
6771 County Road 8 SW
Waverly, Minnesota 55390

Or Register On-Line: www.midwestgeo.com