



## CGS Dinner Presentation

### Introduction to the 5th Edition of the Canadian Foundation Engineering Manual

Presented by:

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TREK Geotechnical

#### Presentation Abstract:

The 5th edition of the Canadian Foundation Engineering Manual represents a significant update to previous editions of the Manual in many different ways. It contains significant expansion to some chapters, the consolidation of several chapters (for example, those on shallow and deep foundations), and the inclusion of new chapters on Geology, permafrost physiography, and climate change in Canada, Settlement and deformation, Foundations in permafrost, Ground vibrations, and Geotechnical instrumentation and monitoring. The 5th edition departs from previous publications in that it is entirely digital in its production and sales. There will be no printed copies produced, so no trees will be destroyed. This digital publication format was also selected for its flexibility, to allow for timelier updates. CFEM 5th Edition (2023) is also significantly increased in size. Previous editions were limited to some practical length governed in part by printing and distribution costs. Because this edition of the manual is digital only, length is not as much of a determining factor and as a result, some of the previous shorter chapters have been expanded. This manual provides information and guidance on geotechnical aspects of foundation engineering, as practiced in Canada, so that the user will more readily be able to interpret the intent and performance requirements of the National Building Code of Canada (NBCC, 2020) and the Canadian Highway Bridge Design Code, CSA S6:19, Section 6 Foundations and Geotechnical Systems. This manual also provides additional material on matters not covered by these codes. This presentation will begin by briefly describing previous editions of the Manual and give due recognition to those involved in the preparation and release of the 5th edition. The focus will then shift to what's new, including new chapters, expansion to some chapters, resequencing of chapters and consolidation of some chapters. The main differences between the 5th and previous editions will be highlighted followed by interactive examples of main features including hyperlinks, search routines, viewing text and figures, making use of PDF editing tools, and ordering. The presentation will end with a brief discussion of ongoing initiatives including errata, the French edition, and preparation for future updates.

#### About the Presenter:

Ken Skafffeld is a Senior Geotechnical Engineer with TREK Geotechnical with 40 years of consulting experience in foundations, cold regions engineering, slope stabilization, and rehabilitation of aging infrastructure. Ken graduated in 1979 from Red River Community College as a Civil Technician and from the University of Manitoba in 1984 with a B.Sc. in Civil Engineering. He completed his Master of Science in Geotechnical Engineering at the University of Manitoba in 2014. His thesis was titled Experience as a Guide to Geotechnical Practice in Winnipeg.

In 2018, Ken assumed the role as the Project Coordinator for the 5th edition of the Canadian Foundation Engineering Manual, reporting to the VP Technical of the Canadian Geotechnical Society. In this role, Ken was responsible for developing an updated list of chapters, soliciting a lead author(s) for each chapter, coordinating the preparation of draft chapters, and reporting to the CGS Executive on progress. In 2021, Ken Skafffeld and Rob Kenyon were named joint editors of the Manual, responsible for completing the collection of chapter submissions, overseeing the review process, editing individual chapters, and coordinating the publication process. At the 2022 Calgary CGS Conference, Ken and Rob were jointly awarded the G. Geoffrey Meyerhof Award which recognized their contribution to the society.

**Date:** Thursday, January 25, 2024

**Time:** 5:30 PM – 7:00 PM

**Location:** Trans Canada Brewing Co.; 1290 Kenaston Blvd #1

**RSVP:** 12:00 PM, Tuesday, January 23, 2024

**Registration Fee (debit, credit, PayPal):**

Membership	Price (\$)	Registration and Payment Link <sup>1,2</sup>
CGS Member	30	<a href="#">Buy Now</a>
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<sup>2</sup>Receipts are automatically sent to your email address.

For event information, please visit:

<http://www.cgsmanitoba.ca/lunch-seminars/upcoming/>

Doreen Wang, EIT

CGS Manitoba Liaison

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- This event qualifies for 1 Professional Development Hour. The event is classified as 'Informal Activity' under EGM's CPD Program.
- Please note that if you are unable to attend, someone else can be sent in your place. We are accepting walk-ins depending on seating availability.
- If you wish to be added to the mailing list, please send an email to [cgs.manitoba@gmail.com](mailto:cgs.manitoba@gmail.com)