A & L CANADA LABORATORIES INC.

SOIL FERTILITY WORKSHOPS 2026

ONTARIO LEVEL 3

Agenda:

8:00 a.m. **Registration**

8:30 a.m. **Designing Input Strategies Based on Soil Type and Spatial Variability**

This session explores spatial variability in crop production and designing nutrient recommendations based on soil type. We'll review North American approaches, including the SLAN (Sufficient Level of Available Nutrients) and BSCR (Base Saturation and Cation Ratio) philosophies, and how they shaped modern recommendations. Fisher's 1974 research, building on Bear and Bray's work, will be discussed to show how soil type and variability are incorporated into practical, hybrid recommendation systems.

10:00 a.m. **Break**

10:15 a.m. **Advanced Nutrient Interactions and Soil Type Influence**

This session examines nutrient interactions, including antagonisms and synergisms, and how soil type affects nutrient availability and release. Participants will learn how to determine optimum nutrient levels for different soils and apply research-based strategies to design agronomically sound and sustainable fertility programs.

12:00 p.m. **Lunch**

1:00 p.m. **Digital Soil Mapping and Variable Rate Application with TerraSiteRx**

Kelly O'Connor will demonstrate how to use TerrasiteRx to store soil data and maps, retrieve information efficiently, and design variable rate applications for lime and other nutrients. This session highlights the program's ease of use and practical advantages compared to other software platforms in the industry.

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2:00 p.m. **Calcium, Soil Variability, and Nutrient Availability**

This session examines soil variability and nutrient uptake as they relate to calcium levels across different soil types and the role calcium plays in crop performance. We will connect these principles to variable rate liming strategies and the use of VRT tools. The discussion will also explore how soil variability influences the availability of secondary nutrients and micronutrients, including sulfur and boron.

3:00 p.m. **Break**

3:15 p.m. **35 Years of Field Research: Mapping, Indexes, and Soil Health Insights**

This session reviews our mapping software, built on over 35 years of in-field crop production research, and explains how to interpret field variability indexes to guide sustainable nutrient application decisions. We will also examine our Soil Health testing approach, including key indicator species that influence crop performance and disease suppression, and how this information can be used to direct inputs and cultural practices that improve overall soil health.

4:30 p.m. **Adjourn**