



# SOIL FERTILITY WORKSHOPS 2023

## Ontario LEVEL 3

### Agenda:

- 8:00 a.m.**                      **Registration**
- 8:30 a.m.**                      **In this section, we will cover the Evergreen Revolution, soil health, and the interaction between plants and the soil microbiome. We will present new soil health research from A&L Biological and how to use and understand how this technology works in the field. This session will focus on soil endophytes and their role in nitrogen fixation and nitrogen use efficiency in crop production. We will also discuss optimum soil nutrient levels for enhancing microbial activity and nutrient uptake – this portion will focus on A&L research on phosphorus optimization and microbial solubilization as it relates to microbial activity.**
- 11:00 a.m.**                      **Soil and plant interactions with nitrogen (N) – Hybrid differences should be considered when making N recommendations in any crop, but the main example here will be corn. In addition, we will review 30 years of A&L research in N modeling for VRT and discuss our next model that includes our Soil Health Index (SHI) and prediction of endophytic N fixation in plants.**
- 12:00 p.m.**                      **Lunch**
- 1:00 p.m.**                      **Soil and plant interactions with N (continued)**
- 2:00 p.m.**                      **Phosphorus (P) use in crop production – In this section, we will focus on the importance of P as it relates to crop quality and soil microbial health. We will address optimum levels across all soil types, predictable availability to the plant and microbiome, and its influence on productivity. Soybean production will be used as an example of the importance of P to the productivity of this crop and other leguminous crops and their nitrogen use efficiency.**
- 3:00 p.m.**                      **Break**
- 3:15 p.m.**                      **Disease diagnostics and plant nutrition**
- 4:00 p.m.**                      **TerraSiteRx update – The algorithms contained within this software are based on over 35 years of field research on crop production.**
- 5:00 p.m.**                      **Adjourn**