Webinar Abstract:

Every meal we eat connects back to the land, yet agriculture remains one of the largest human-made sources of CH_4 and N_2O—greenhouse gases far more potent than CO_2—with rice paddies and livestock among the biggest contributors. As building a sustainable food supply becomes increasingly vital, reducing these emissions starts with getting clear, reliable measurements from both the air and the soil.

In this webinar, join our experts as they share practical testing methods to support net-zero agriculture. You will learn how to measure CH_4, CO_2, and N_2O all in a single run using the Nexis™ GC-2030 Greenhouse Gas Analyzer across soil chambers, animal digestion, and manure storage samples.

Our speakers will also guide you through essential soil testing workflows: how to assess soil organic carbon and total nitrogen, track the key nutrients (NO_3^-, NO_2^-, NH_4^+ and SO_4^{2-} species) driving N_2O emissions, and profile soil health for both essential nutrients and toxic elements.

Register today to discover how analytical testing helps secure the future of our sustainable food supply!

Learning Objectives:

1. Select the right GC setup for simultaneous determination of CH_4, CO_2 and N_2O across various agricultural sample types, while achieving good sensitivity and fast run times.

2. Understand essential soil testing workflows from assessing soil organic carbon and total nitrogen to tracking key nutrients and profiling soil health.

3. Produce reliable, audit-ready GHG data with clear quality controls for future actionable.