



Press Release 01/10/2023

Bruker Scientific is pleased to announce a TECHTalk this year at IPPE:

The Advances and Advantages of NIR Technologies in Agriculture

Tuesday, January 24th: 3:30 – 3:50 PM

From assessing raw materials to finished products, the capacity to maintain high standards of product quality amid rapidly changing market demands is a shared desire amongst many in the agricultural industry. Such demands highlight the value of analytical instruments such as near-infrared (NIR) spectrometers, which allow for the quick, cost-effective verification of nutrient concentrations in materials via non-destructive qualitative and quantitative analyses.

The progression of NIR technology has evolved in such a way that accommodates the ever-changing requirements of its implementation - from its early applications to its rising utilization in feed manufacturing. All NIR spectrometers are similar in functionality; however, distinctions in hardware and software designs impact key elements such as repeatable, highly accurate data.

Since the first filter-based instrument brought to market nearly 40 years ago, additional NIR technologies have developed that improve upon some of the accuracy limitations observed in earlier technologies. Fourier Transform (FT) NIR spectrometers are the newest technology available on the market.

FT-NIR utilizes full-spectrum information to allow for parameters such as protein and amino acids to be confidently predicted. Since FT-NIR instruments collect every other data point along the NIR spectrum when a measurement is made, an immense amount of data is immediately made accessible. This means you can have complete confidence that your results are accurate. In addition, the hardware never drifts or changes over time, eliminating the need for regular bias or skew adjustments. This is a huge money and time saver for you!

Come learn more by attending our talk or stopping by our booth in B Hall (B8831) to continue the discussion over coffee!

If you'd like to see an FT-NIR instrument in action, register here <https://l.ead.me/bdXL35> for a live demo.

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