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Technical Note provides “A Beginner’s Guide to Spectroscopic Analysis for Industrial Applications”

TUSTIN, Calif., March 2, 2009 – Axiom Analytical, Inc. has announced the availability of a new Technical Note, AN-923, entitled “A Beginner’s Guide to Spectroscopic Analysis for Industrial Applications”. This guide is intended to serve as a brief introduction to the diverse forms of molecular (or vibrational) spectroscopy as applied to both process development and on-line process applications. The goal is to provide the first-time user with the general information needed to make an initial selection among the various possible approaches to a given application. The guide provides a brief introduction to the four major forms of molecular spectroscopy, mid-infrared (MIR), near-infrared (NIR), UV-Visible, and Raman, and discusses the sampling methods applicable to each. A Table compares the attractiveness of each in the light of the band types involved, calibrations methods, optical materials, availability of fiber-optics, sample fluorescence, background radiation, referencing, and cost of ownership. An additional Table summarizes the applicability of the three major forms of molecular spectroscopy to specific sample types. A third Table assesses the applicability of each form of spectroscopy to clear liquids in the light of a variety of considerations such as the need for in-situ sampling, high temperatures and pressures, corrosive samples, need for functional group specificity, rapid survey, short production runs, thermal background, availability of an internal reference, and cost of ownership. A final section reviews the conditions favoring extractive versus in-situ sampling.

About Axiom Analytical, Inc

Axiom Analytical, Inc. was founded in 1988 by Dr. Mike Doyle and Norm Jennings, pioneers in the field of process FTIR spectroscopy. The Company’s mission is to develop and market the robust sampling equipment, software, and integrated systems required to fully realize the potential of molecular spectroscopy for solving economically significant problems both in laboratory analysis and manufacturing processes. The Company’s products are employed in diverse industries ranging from basic chemicals to pharmaceuticals, semiconductors, and polymer processing.

More information about Axiom Analytical Inc. can be found at <http://www.goaxiom.com/>.