

**Quantachrome Instruments Workshop on Methods of Characterization and Evaluation
of Adsorbents for Industrial Applications**

**Thursday, November 2, 12:00 - 12:30 PM
Minneapolis Convention Center, Room 101J**

**Use of an Advanced Simulation Package for Predicting Breakthrough Behavior
of Gas Mixtures from Single-Component Isotherms**

The ability to evaluate parameters of a separation process and predict multi-component adsorption of complex systems is a valuable tool in design and optimization of separation and purification systems. Trial and error, using a breakthrough apparatus can be very time consuming and costly, and may not result in a true optimization of the process. We will discuss the use of a powerful dynamic simulation program, which can be used to optimize parameters and predict the competitive adsorption behavior of gas mixtures on various adsorbents.