



## **PerkinElmer's Exclusive Hyphenated Scientific Instrumentation Allows Simultaneous Testing for the Drug and Plastic Industries**

SHELTON, Conn., Sep 28, 2009 (BUSINESS WIRE) -- PerkinElmer, Inc., a global leader focused on the health and safety of people and the environment, has emerged as a leader in hyphenated scientific instrumentation with the launch of its exclusive Differential Scanning Calorimetry (DSC)-Raman spectroscopy hyphenated system.

The DSC-Raman system combines the strengths of thermal analysis with Raman spectroscopy. When combined, these two complementary techniques provide greater insight into material changes at a molecular level.

"Out of the leading instrument manufacturers, PerkinElmer is the only company that has scientific expertise in the development of both thermal analysis and Raman spectroscopy. We have employed this expertise to develop an exclusive hyphenated technique that allows researchers to look directly at the sample as material changes occur, and not at the evolved gases as other techniques do," explained Martin Long, vice president, Spectroscopy, PerkinElmer. "This capability provides numerous analytical advantages. As a result, the instrument is generating considerable interest in several key technology areas, including pharmaceuticals and polymers."

The DSC-Raman system combines the double-furnace DSC 8500 with the RamanStation™ 400 spectrometer. The method consists of simultaneously analyzing chemical and structural information from the Raman spectrometer, and correlating it with the calorimetric data of the DSC. Several large pharmaceutical companies and universities have test driven hyphenated techniques, and have found they give greater insight into polymer crystallizations, drug-carrier interactions, curing, and polymorphic changes. These innovations will allow customers to reduce R&D time and rapidly bring to market new materials and drugs with improved performance.

Posters and papers on DSC-Raman hyphenation are available at [www.perkinelmer.com/hyphenation](http://www.perkinelmer.com/hyphenation).

The DSC-Raman is available globally for purchase through PerkinElmer sales.