

## FOR IMMEDIATE RELEASE

### Mathis sets new effusivity speed records in PAT

July 8, 2006 Fredericton, NB – Mathis Instruments Ltd. announced today that three important PAT speed records have been accomplished in areas of technology performance, evaluation time and start-up time.

With the release of version 2.0 of Mathis' ESP™, wireless effusivity measurements are now a full 3X faster than at its launch during Interphex 2005. This advance allows powder blending and lubrication to be accurately monitored in real time at speeds from 6 - 25rpm, starting with the first rotation of the blender. Existing users welcome this upgrade. "This development represents a monumental leap forward in overall functionality for solid dose profiling capabilities across my full range of operating conditions. My PAT toolbox definitely became more powerful," says Stephen Closs, Manager, Process Development at Patheon's Whitby facility.

The high measurement speed and plug and play capability of the new ESP allows Mathis to offer clients a rapid process profiling service as a means of evaluating the technology. "In the last few months, we have delivered over a dozen on-site trials that have definitively demonstrated the ability of effusivity to correlate to chemical analysis" says Dr. Nancy Mathis, President and CEO of Mathis Instruments Ltd. Cephalon's Senior Director, Pharmaceutical Process Development R&D, Brian Hague is a strong proponent of the trials. "The real beauty of effusivity is the simplicity and the ability to see it in action for yourself during the first day. Because there is no complicated math or models to create, you can try it on your product, on your blender, at your site, within a one-week trial with Mathis. After seeing it first hand, I was sold".

The implementation speed of the Mathis ESP into routine production puts on-line process knowledge into the hands of users in unprecedented time frames. "Effusivity was simple to bring on-line in a manufacturing environment", says David Mayers, Director of Quality at Purdue Pharmaceuticals. "Our people were trained and we were back in operation in 2 days, and now we see what we are doing real time." Beyond the initial implementation, the routine use of effusivity measurements adds confidence in production quality without compromising production efficiency. "Set-up and change over speed is critical to us as a contract manufacturer. We can switch effusivity between products with nothing more than the cleaning of the sensors", says Mark Turnbull, Acting Director of Pharmaceutical Development at Patheon's Toronto facility.

"Many organizations feel that they have fallen behind in their PAT adoption. We are pleased to offer them a rapid route to enhanced understanding", says Mathis.

### About Mathis Instruments

Established in 1995 and based in Fredericton, NB, Canada, Mathis Instruments Ltd. has developed innovative sensor technology to provide solutions for Process Analytical Technology (PAT) environments. The Mathis technology uses thermal effusivity to evaluate, monitor and control the uniformity of powders, liquids and creams in real time. Already in use by several major pharmaceutical companies, the Mathis technology is designed for material handling and processing environments, specifically: blend uniformity, wet granulation, separation kinetics, emulsion stability, drying and lubrication monitoring. For more information about **Mathis Instruments** contact Wendi Lunney at, [wlunney@MathisInstruments.com](mailto:wlunney@MathisInstruments.com) or visit [www.MathisInstruments.com](http://www.MathisInstruments.com).