

CEM Lab Systems Generate Intense Interest at Pittcon *New Protein Analyzer Receives Honorable Mention*

Matthews, North Carolina (March 27, 2008) – **CEM Corporation**, a leading global company specializing in scientific solutions for critical laboratory applications, is pleased to announce that the Company had the largest amount of booth traffic that CEM has experienced in several years at **Pittcon®**, one of the largest scientific conferences in the world. The Company attributes the increase to two of its innovative products that were highlighted at the show, the new **Sprint™ Rapid Protein Analyzer** and the **MARSXpress™ Microwave Reaction System** for solvent extraction. Both systems represent breakthrough technology for their respective industries: food testing and environmental analysis.

Sprint also garnered an Honorable Mention for the Pittcon Editor's Choice Awards. The awards recognize the most innovative and creative laboratory systems being displayed at the conference. The winners are determined by approximately 200 editors and reporters who attend the exhibition.

"We deeply appreciate the recognition given to Sprint by the editors," said Michael J. Collins, president and CEO of CEM Corporation. "The system has been extremely well received in the food industry for its breakthrough approach to protein determination and the accuracy of its results.

"Today's global marketplace makes it imperative for companies to be certain of the quality and safety of their products," continued Collins. "Sprint provides unparalleled accuracy to aid companies in ensuring the protein content of foods and ingredients. It is not affected by nitrogen interferences that cause other methods to yield falsely elevated protein counts, as happened last year in the petfood industry."

The Sprint Rapid Protein Analyzer with iTAG™ Technology generated a great deal of excitement from attendees in the food industry, as Sprint is expected to replace Kjeldahl as the standard test for protein in foods. Kjeldahl utilizes a copper catalyst and sulfuric acid heated to high temperatures for hours, posing a safety and environmental hazard. In two minutes, Sprint provides results that are more accurate than Kjeldahl in a safe, simple test that utilizes iTAG, a totally environmentally benign reagent, for protein determination in foods and ingredients. Unlike other protein determination methods, Sprint is not susceptible to nitrogen interferences, as it only measures protein. Because of the intense interest in the system from key executives in major food companies, CEM has increased manufacturing resources to meet demand for the product.

The MARSXpress System uses ten times less solvent than a traditional Soxhlet and is much faster, processing up to 80 extractions in only four hours, up to 12 times the throughput of competing methods. Microwaves are also a cleaner source of energy for driving chemical transformations. The United States Environmental Protection Agency has been studying the utilization of microwave energy for green chemistry applications and has approved several microwave-assisted chemistry methods for official use. The new-



Sprint™ Rapid Protein Analyzer from CEM Corp.



Microwave-Enhanced Science

est procedure is Method 3546, which was recently approved for extracting organic analytes such as semi-volatile organic compounds, pesticides, herbicides, PCBs and PCDDs/PCDFs from soils, clays, sediments, sludges, and solid wastes. Several large environmental labs are currently evaluating the system and moving towards incorporating the MARSXpress into their laboratories.

“We find the enthusiastic reception of the MARSXpress System in the environmental analysis sector to be extremely encouraging for the product’s longevity. The labs we’ve spoken with are very excited about the throughput capabilities of the system and the significant reduction in solvent usage that they have experienced,” concluded Collins.

The methods for these instruments are approved by the USEPA (MARS), and the AOAC and the AACC (Sprint).

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CEM Corporation, a private company based in Matthews, North Carolina, is a leading provider of microwave laboratory instrumentation. The Company has subsidiaries in the United Kingdom, Germany, Italy and France, as well as a global network of distributors. CEM designs and manufactures systems for bioscience applications, life sciences, analytical laboratories and processing plants worldwide. The Company’s products are used in many industries including pharmaceutical, biotech, chemical and food processing, as well as academic research.

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