At Pittcon 2014, Bruker Introduces Numerous New and Enhanced Customer-Driven Products for Life-Science Research, Industrial and Applied Markets

CHICAGO, Illinois – March 3, 2014 – At Pittcon 2014, Bruker today announced new product introductions and enhancements for improved performance and customer experience in research, industrial and applied markets. Designed to increase sensitivity, improve specificity and maximize productivity, the new Bruker products introduced at Pittcon 2014 include:

**Chromatography, Mass Spectrometry and Infrared/Raman Spectroscopy:**

**GC-APCI II MS interface:** This second generation GC-APCI-MS interface allows even more convenient connection of Bruker’s complementary separation and MS detection technologies. The **GC-APCI II** features a flexible heated GC-transfer line for easier instrument positioning. It offers coupling of GCs to any Bruker ESI system, including accurate-mass QTOF systems, without tools. The new interface provides better sensitivity and improved dynamic range while retaining excellent GC-separation performance for identification of unknowns in metabolomics and small molecule research.

**Dash Reporting Software for GC-MS and LC-MS:** Bruker’s new **Dash** reporting software brings the power and flexibility of customized reporting to all Bruker GC-MS and LC-MS users. It is centered around **Dash Designer**, which enables customers to design and format report elements, and preview reports. **Dash** is included on all new **EVOQ™** LC-MS and **SCION™** GC-MS spectrometers, and is available as an upgrade for existing customers.
**autoflex speed MALDI-TOF (TOF)** with **2 kHz smartbeam™ laser**: The new **autoflex speed** mass spectrometer incorporates Bruker’s proprietary **smartbeam™-II** laser technology to enable up to 2 kHz repetition rate in MS mode. The new **autoflex speed** enhances the productivity of laboratories involved in biomarker discovery, polymer analysis, lipid and glycan analysis, mass spectrometry imaging, as well as high-throughput **MALDI Biotyper** microbiological molecular identification.

**VERTEX - MIR-FIR Spectroscopy in One Step:** The world’s first FTIR spectrometer covers the complete middle and far infrared/THz spectral ranges in one step with no gaps! The new wide-range MIR-FIR DLaTGS detector is combined with the recently introduced wide-range MIR-FIR beamsplitter offered for the Bruker **VERTEX 70** series of research FTIR spectrometers to achieve unmatched spectral range. This new combination provides data collection from 6000cm$^{-1}$ to 10cm$^{-1}$ in one step for all types of transmittance, reflectance, and ATR measurements without the need for any beamsplitter or detector exchange. This expanded range makes the infrared analysis of inorganic compounds and polymorphic species quick and easy.

**Materials Research and Analysis:**

**S2 KODIAK:** The new online multi-element analyzer **S2 KODIAK** uses X-ray fluorescence to analyze the elemental concentrations in ores and other materials on conveyor belts in real time. Since information about the ore grade becomes immediately available with the **S2 KODIAK**, mineral beneficiation and ore blending can be optimized. This allows substantially higher product grades, better cost efficiency, and increased mine output. Based on **S2 KODIAK** results, miners and plant operators are able to instantly adjust process parameters and achieve higher recoveries without time consuming and costly sample preparation. There are no delays waiting for results from an offsite laboratory.
Second generation S1 TITAN: In response to customer feedback, the new S1 TITAN has been enhanced to include a weatherproof IP54-rated housing, optional integrated camera and a small spot collimator for microspot analysis and video camera observations and recordings. In addition, the protective TITAN Detector Shield™ is now standard for all models. The patented SharpBeam™ collimator technology remains a standard feature in all S1 TITAN models. Its optimized geometry has many user benefits, including improved measurement precision, reduced power requirements and increased battery life. The result is one of the most durable handheld XRF analyzers on the market today.

Dektak XTL™ Stylus Profiler: The new Dektak XTL Stylus Profiler extends industry-leading stylus profilometry to 200 and 300 millimeter semiconductor wafer fabs and next-generation touch panel manufacturers. The system provides the most cost-effective, full 300-millimeter wafer solution for characterizing thin film step heights, resist step heights, line edge roughness, CMP dishing and erosion, as well as roll-off amount (ROA). The Dektak XTL combines decades of stylus innovation with new features suitable for QA/QC environments, enabling increased accuracy and minimal operator intervention between loading and unloading samples.

Magnetic Resonance Spectroscopy and Preclinical Imaging:

minispec™ with automation: The new sample automation for the minispec mq and mq-one series is easy to use and cost-effective and brings sample automation to routine Time-Domain (TD)-NMR. Its fast sample exchange of 10mm OD sample tubes and automated and precise tempering times deliver new levels of throughput and reliability, significantly boosting productivity of the minispec series. Complex Solid Fat Content (SFC) analysis, one of the major minispec applications, now benefits from highly accurate sample temperatures, delivering results in strict accordance with SFC International Standard Methods. The minispec sample automation is also available as an upgrade.
**TopSolids™ NMR software package:** This new intuitive, workflow-based software package for solid-state NMR in structural biology provides menu-based, automated setup and acquisition of the most advanced multinuclear multi-dimensional NMR experiments. *TopSolids* includes a comprehensive library of protocols for structural biology, and ensures robust, secure spectrometer and probe setup. The combination of optimized acquisition parameters with fine tuning on the actual research sample guarantees unsurpassed spectral quality. *TopSolids* is readily accessible to users from diverse backgrounds for understanding the structure and dynamics of complex insoluble proteins.

**New Preclinical Imaging Center of Excellence:** Bruker recently announced the opening of a new Preclinical Imaging Center of Excellence for the Americas in Billerica, Massachusetts. The facility offers advanced development, demonstration and support facilities for Bruker’s industry-leading portfolio of preclinical imaging instrumentation and multimodal platforms including MRI, uCT, Optical Molecular Imaging, MALDI imaging and EPR imaging. In showcasing both the individual imaging technologies and the benefits gained from combining multimodal experiments, the Center will promote the successful application of complementary imaging information in preclinical research in oncology, cardiology, inflammation, musculoskeletal imaging and the neurosciences.

**Ascend™ Aeon 900:** The world’s first compact, single-story solid-state 900 MHz NMR magnet integrates advanced refrigeration technology into the magnet design, and provides independence from periodic cryogen refills. Combining the latest Aeon technology with Bruker’s established Ascend™ magnet technology delivers industry-leading solid-state NMR performance and unmatched convenience for customers. It enables long-term, carefree operation without user maintenance and with essentially helium-consumption-free operation. Due to advancements in superconductors, jointing technologies and novel magnet designs, the reduced height and stray fields maximize siting flexibility and reduces site preparation costs.
**NMR JuiceScreener 3.0:** Bruker’s third release of its successful *NMR JuiceScreener™* comes with significant further enhancements that enable the accurate, swift, automated screening of even more fruit juice types. From an expanded database now containing more than 16,000 spectra obtained from production sites all over the world, with over 300,000 NMR reference values, determination of origin and detection of adulteration now covers 19 types of fruit and 10 types of juice. The *NMR JuiceScreener* 3.0 now covers high-value products such as passion fruit juice, pomegranate juice and mango puree.

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Frank H. Laukien, Ph.D., President and CEO of Bruker Corporation, commented: “At Pittcon 2014, Bruker continues its *Innovation with Integrity* tradition for our global customer base. With compact, easy-to-use, affordable, yet high performance products we gain access to broader markets and expand our presence in quality control, applied and industrial markets, while maintaining our excellent reputation in the scientific research community.”

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**About Bruker Corporation**

Bruker (NASDAQ: BRKR) is a leading provider of high-performance scientific instruments and solutions for molecular and materials research, as well as for *in vitro* diagnostics, industrial and applied analysis.

Please join us at Bruker’s Pittcon booth #4135 throughout the conference, and at our Pittcon press conference on Tuesday, March 4, 2013, at 12:00 noon to 1:15 pm CT at the Hyatt Regency McCormick - Regency Ballroom, 2nd floor (lunch served, by registration only).

For more information on Bruker at Pittcon 2014, please visit [www.bruker.com/pittcon](http://www.bruker.com/pittcon)

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