

Press Release

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Analytica 2006

Innovations in all areas of analytical instrumentation

Best quadrupole available world-wide /

EDX system for the analysis according to RoHS /

Unique: camera acquires 100 images (at one million fps) /

Many additional innovations

Shimadzu, one of the world leaders in analytical instrumentation, will exhibit several brand-new analytical systems at Analytica Show 2006 in Munich, Germany. In addition, Shimadzu will present new processes and applications offering new ways of interpreting data acquired by proven technologies. Examples are the determination of CO₂ content in beverages via TOC or suspension methods as a simple and reliable alternative to solid-phase TOC.

From April 25 – 28, Shimadzu will welcome all interested visitors to **Stand 405/504**, located in **Hall A1**. One of the themes at the stand will be RoHS (**R**estriction of the use of certain **H**azardous **S**ubstances in electrical and electronic equipment) – this may be the last opportunity for production-oriented companies to prepare for compliance with the RoHS legal directives before July 1, 2006.

‘Simply the best’ – the new GCMS-QP2010 Plus quadrupole

The new GCMS-QP2010 Plus quadrupole mass spectrometer underlines once again Shimadzu’s leading innovative technology.

The newly designed ion source makes the system twice as sensitive as its predecessor – as well as all mass spectrometry systems from Shimadzu’s competitors. The GCMSsolution software features an additional highlight: the integrated search function for the linear retention index (LRI) in LRI libraries, offering users increased reliability in the identification of unknown compounds.

ICP spectrometer allows easy analysis of difficult samples

The ICPE-9000 spectrometer combines high-performance and speed. Its optical bench acquires and processes emitted radiation using a CCD (charge-coupled device) detector. Even difficult samples with complex matrices can be analysed easily – also by less experienced operators using the “intelligent” ICPsolution software.

More information per sample using the LCMS-IT-TOF

The LCMS-IT-TOF is a new hybrid-type high-performance mass analyzer and provides researchers with outstanding quality data for their projects within a very short time. Combining the essential features of two mass spectrometric techniques – ion trap and TOF – enables the analysis of molecules via MS^n with high mass accuracy as well as high mass resolution.

Banned substances quickly unmasked – non-destructive

Hazardous substances such as lead and cadmium can be effectively determined using the EDX-720 X-ray fluorescence spectrometer featuring a 100 % increase in detection sensitivity. The EDX-720 can also be applied in many different areas of elemental analysis. New functionalities contribute to the instrument’s precision and economical use.

Unique: camera acquires 100 images (at one million fps)

The high-speed camera HPV-1 “freezes” phenomena within microseconds and opens up promising new avenues in materials

science R&D. The HPV-1 offers new insights in mechanical and machine processes as well as chemical reactions.



Fig. 1: New hybrid high-performance mass analyzer: the LCMS-IT-TOF.



Fig 2: Optimal for the detection of hazardous substances according to RoHS: the EDX-720.



Fig 3: Unique through its sensitivity and automated LRI library: the new GCMS-QP2010 Plus.



Fig 4: Developed for materials testing and development: the HPV-1 high-speed camera can capture 100 images at one million frames per second.

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<http://www.shimadzu.de>