

## IndustryNews

### Focal Point and Piezosystem Jena Partner to Deliver High-Speed Autofocus Systems

Focal Point, Inc. (Boise, ID) and Piezosystem Jena, Inc. (Hopedale, MA) announced a new partnership to deliver turnkey autofocus systems for high-speed metrology and biological imaging applications. "Focal Point's extensive experience in semiconductor and printing technology applications nicely complements our knowledge of the super-resolution microscopy field. Bringing both technologies together will open up new possibilities in test, measurement, and biological research," said Jim Litynski, CEO of Piezosystem Jena, Inc.

Focal Point, Inc. and Piezosystem Jena, Inc.  
www.focal-pt.com and www.piezojena.com

### The Linkam Temperature-Controlled Stage CCR1000 is Used as a Mini-Reactor at the University of South Carolina to Study Heterogeneous Catalysis

Researchers at the University of South Carolina are using the Linkam CCR1000 stage for Raman spectroscopy to investigate the oxidation of carbon monoxide over rhodium-based catalysts (zeolite and alumina are used as supports). When asked about the Linkam system, they noted an advantage is precise temperature control, which is important when doing multiple experiments at different temperatures.

Linkam Scientific Instruments  
www.linkam.co.uk

### Assess Cell Cultures with Axio Vert.A1 from Carl Zeiss



The Axio Vert.A1 is an inverted microscope from Carl Zeiss with extensive performance capabilities. For the first time, a compact cell culture microscope combines all standard contrasting techniques in a single stand. In transmitted light, the Axio Vert.A1 offers brightfield, phase contrast, polarization contrast, PlasDIC, VAREL improved Hoffmann modulation contrast (iHMC), and differential interference contrast (DIC). This makes it possible to record very fine structures in cells, enabling users to better assess cell cultures.

Carl Zeiss Microscopy, LLC  
www.zeiss.com/micro

### New WITec Product Overview Catalog



WITec has released a new product overview catalog highlighting the entire WITec portfolio. The potential applications and modularity of the alpha300 and alpha500 series and their accessories are illustrated with a completely new look. It is the ideal guide to confocal Raman imaging and scanning probe microscopy solutions. The format and arrangement of the content reflects the philosophy of a modular product line guiding the reader with technical drawings, tables, and detailed descriptions of the technologies.

WITec GmbH  
www.witec.de/en/company/witecnews/news.php?id=74

### Thermo Fisher Scientific Releases GRAMS Suite—Version 9.1

Thermo Fisher Scientific Inc. announced the latest release in its GRAMS Suite of spectroscopy software, a solution for visualizing, processing, reporting, and managing spectroscopy data. Thermo Scientific GRAMS 9.1 delivers enhanced capabilities to meet the needs of scientists engaged in a variety of spectroscopic experiments and disciplines. The GRAMS Suite is comprised of a collection of complementary and fully integrated applications and modules centered on the core GRAMS/AI spectroscopy data processing and reporting software.

Thermo Fisher Scientific Inc.  
www.thermoscientific.com/grams

### JPK Releases New Handbook of Accessories for SPM

JPK's family of SPM solutions have been available for over ten years. To keep these functioning and still useful while adding new capabilities has always figured prominently in the design process of the newest systems. The latest range of accessories is described in a new 20-page handbook available in both digital and print form. It provides users with unlimited possibilities for their NanoWizard®, ForceRobot®, and CellHesion® systems.

JPK Instruments AG  
www.jpk.com

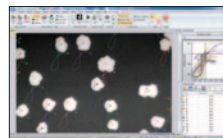
### Leica SR GSD Super-Resolution Imaging System Announced as a Top 10 Innovation of 2011 by The Scientist Magazine



In its January issue, *The Scientist* magazine selected the Leica SR GSD Super-resolution Imaging System as one of the "Top 10 Innovations of 2011." The Leica SR GSD (Super-resolution, Ground State Depletion) imaging system was designed to address a particular imaging problem in an innovative way. Standard fluorescent microscopes cannot resolve objects less than 200 nm apart because their emitted light waves overlap.

Leica Microsystems, Inc.  
www.leica-microsystems.com

### New Image-Pro® Premier Image Analysis Software Accelerates Life Science and Industry



Media Cybernetics announces the availability of Image-Pro Premier, a brand new image processing and analysis software package that intelligently incorporates more than 25 years of user input. Image-Pro Premier significantly expands earlier Media Cybernetics Image-Pro software packages. The Image-Pro Premier package provides intuitive tools that now make it easier than ever to capture, process, enhance, measure, compare, analyze, automate, and share images and valuable data.

Media Cybernetics  
www.mediacy.com

## Piezo for Medical and Life Sciences: New Brochure Available from PI



Piezo specialist PI (Physik Instrumente) has published a new brochure on medical applications of piezo ceramic actuators, transducers, and motion components. The “Piezo Drive Solutions for Medical Engineering” entitled PDF document is available for download at the address below. Originally developed for nanometer-precision motion, piezoelectric motion principles are proving highly adaptable to new configurations and modalities. Recently developed systems have overcome the former limitations familiar from classical piezo mechanisms.

Piezo specialist PI (Physik Instrumente)  
[www.pi-medical.net/Piezo\\_Motion\\_for\\_Medical.htm](http://www.pi-medical.net/Piezo_Motion_for_Medical.htm)

## Bio-Rad to Offer Its KnowItAll® Raman Spectroscopy Software through HORIBA Scientific

Bio-Rad Laboratories, Inc. announced that Bio-Rad's KnowItAll® Informatics System software package will be offered for use with the HORIBA Scientific range of Raman spectrometers. The HORIBA Edition of the KnowItAll software provides scientists with an integrated environment for Raman spectroscopy with tools for spectral search, analysis, data mining, and HORIBA's database of over 1,700 spectra covering a wide range of application areas.

Bio-Rad Laboratories, Inc.  
[www.knowitall.com](http://www.knowitall.com)

## Rochester Precision Optics Holds Ribbon Cutting Ceremony for Newly Expanded 107K Square Foot Facility

Rochester Precision Optics held a ribbon-cutting ceremony for their newly expanded 107,500-square foot facility at the company's current Henrietta, NY, location. Previously known as Kodak Optical Imaging Systems, RPO manufactures optical components and assemblies used in a wide variety of commercial, military, and industrial systems. It offers high precision, optical components, and subassemblies and specializes in producing glass-molded aspheres using proprietary technology that was developed at Kodak.

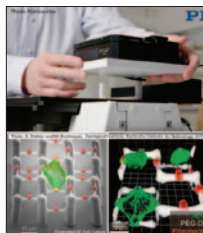
Rochester Precision Optics  
[www.rpoptics.com](http://www.rpoptics.com)

## Vistec Provides ITME in Warsaw with a High-Performance Electron-Beam Lithography System

Vistec Electron Beam GmbH announced that the Institute of Electronic Materials Technology in Warsaw purchased a Variable Shaped Beam system SB251 from Vistec. The advanced lithography tool will be used for research and manufacturing of various kinds of micro-optical and diffractive elements, new materials, and masks for optical lithography. As a leading research institute in Poland, ITME is working in the multidisciplinary area of research, development, and manufacturing of materials.

Vistec Electron Beam GmbH  
[www.vistec-semi.com](http://www.vistec-semi.com)

## 3D Laser Lithography System Employs XYZ Nano-Positioning Stage



Piezo nano-positioning systems specialist PI (Physik Instrumente) provides a 3-axis nano-positioning stage that is employed in a novel laser lithography system by Nanoscribe GmbH. The lithography system can produce complex 3D structures, fully automatic and repeatable with a precision and flexibility previously unavailable. Sub-micron structures with sizes of up to 1 mm and widths to 150 nm are feasible. Typical applications for 3D laser lithography are the creation of 3D structures for cell biology.

PI (Physik Instrumente)  
[www.nanopositioning.net/XYZ\\_nanopositioning\\_stage.php#P563](http://www.nanopositioning.net/XYZ_nanopositioning_stage.php#P563)

## Agar Scientific Announces New Highly Concentrated Colloidal Gold for Research Applications

Agar Scientific is a supplier of high-quality accessories to assist with sample handling for the microscopy market serving a very broad range of application areas. One of these ranges is the gold nanoparticle solutions produced by BBI. BBI originally developed their gold colloid range to be used as immunohistochemistry bio markers. 20 nm gold colloid is used in light microscopy whereas 5 nm and 10 nm particles are more suited for electron microscopy.

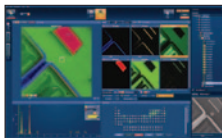
Agar Scientific Elektron Technology UK Ltd  
[www.agarscientific.com](http://www.agarscientific.com)

## Anasys Adds Arbitrary Polarization Control to the NanoIR™, the Nanoscale IR Spectroscopy System

Anasys Instruments announces further capabilities for their nanoIR nanoscale infrared spectroscopy system. The availability of arbitrary polarization control enables the user to measure and visualize molecular orientation with nanoscale spatial resolution. This is useful in a variety of applications where understanding molecular orientation is important. One of the most exciting applications is the study of polymeric fibers where molecular orientation is vital to controlling their properties.

Anasys Instruments Corporation  
[www.anasysinstruments.com](http://www.anasysinstruments.com)

## Oxford Instruments AZtecTEM



Oxford Instruments NanoAnalysis has announced the launch of AZtecTEM, EDS software for the transmission electron microscope. AZtecTEM packs innovative tools and technologies into a platform specifically designed for the TEM user. For the first time, TEM users will be able to see true elemental variations in real time using AZtec's overlap-corrected TruMap and TruLine scans. At the same time, AZtecTEM uses predictive and reactive routines to automatically correct microscope drift, which is vital when collecting data at the nanoscale.

Oxford Instruments NanoAnalysis  
[www.oxford-instruments.com](http://www.oxford-instruments.com)