

## IndustryNews

### National Institute for Occupational Safety and Health Partners with Protea Biosciences

Protea Biosciences Group, Inc. announced that the National Institute for Occupational Safety and Health (NIOSH) has established a scientific collaboration with Protea's Imaging and Bioanalytical Laboratory to study the occupational hazards of the inhalation of aerosols released during welding and electronic manufacturing processes. NIOSH is the federal agency that conducts research and makes recommendations for preventing work-related injuries, illnesses, and deaths.

Protea Biosciences Group, Inc.  
www.proteabio.com

### Linkam Partners with Cyversa to Announce VISTA – A Visual Approach to Thermal Analysis

VISTA offers a new approach to thermal analysis through a visualization-through-software approach. The first phase of VISTA combines the characterization power of thermal analysis with the imaging capabilities of modern optical microscopy. In a typical thermal analysis experiment, the sample is "hidden" from the operator within the depths of the instrument, and the only means of understanding what is happening during the measurement is from the instrument's transducer.

Linkam Scientific Instruments and Cyversa  
www.linkam.co.uk

### Researchers Honored with the 2015 WITec Paper Award for Their Outstanding Scientific Publications

The winners of this year's WITec Paper Awards have been announced. Research groups from Poland, Switzerland, and Singapore won the Paper Awards in gold, silver, and bronze, respectively. The annual awards honor outstanding scientific publications that feature results acquired with a WITec instrument. Scientists from all over the world submitted more than 80 publications, from between January and December 2014, to this year's competition.

WITec GmbH  
www.WITec.de

### Edmund Optics® Honored by Vision Systems Design 2015 Innovators Awards Program

Edmund Optics announced that it was awarded a Silver Level Award for its TECHSPEC® Telecentric Variable Magnification Lenses and a Bronze Level Award for its Dynamic Focus VZM Lens. Both lens families were recognized among the best in the industry by the judges of the Vision Systems Design 2015 Innovators Awards program. The judging panel consisted of esteemed experts from system integrator and end-user companies.

Edmund Optics  
www.edmundoptics.com

### Allied Vision Honored by Vision Systems Design 2015 Innovators Award

Allied Vision has been honored with a Gold-level award at the Vision Systems Design Innovators Award ceremony at the Automate 2015 show. The Goldeye G-033 SWIR is the smallest and fastest GigE Vision SWIR camera on the market. Its design combines high performance with a small form factor that allows for easy integration into many applications. The new camera delivers more than 300 frames per seconds at full resolution.

Allied Vision  
www.alliedvision.com

### LatticeGear LLC Partners with PM Professional Maintenance to Expand Sales and Service Network in Germany

LatticeGear, has partnered with Professional Maintenance to expand their sales and service support for analytical laboratory customers in Germany. LatticeGear provides cleaving solutions that offer high productivity and throughput. Its cleaving tools and accessories offer a low cost-of-ownership (COO) and a high return on investment for the semiconductor, solar, and general materials markets. PM Professional is a provider of sales and service for semiconductor technology.

LatticeGear, LLC and PM Professional Maintenance  
www.latticegear.com and www.pm-service-gmbh.de

### NIST DTSA-II Iona Released a High-Precision Quant with an SDD

DTSA-II provides a host of tools for quantitative EDS micro-analysis including quantification, simulation, and measurement planning. Iona has a host of improvements, both large and small, detailed on the web site. This upgrade demonstrates the potential of the modern EDS detector to perform reliable, quantitatively accurate compositional measurements even for some very challenging samples. Download for free from <http://www.cstl.nist.gov/div837/837.02/epq/dtsa2/index.html>

National Institute of Standards and Technology  
www.cstl.nist.gov/div837/837.02/epq/dtsa2/index.html

### New Sales Director at SGX Sensortech

SGX Sensortech announced that Del Redfern has joined the company as sales director. Del will be responsible for the business development of the company's range of high-performance and custom-designed silicon drift detectors to new and existing customers. Del has over 20 years of experience in the microanalysis and X-ray fluorescence markets, working in the UK and the US with market leaders Philips (now Panalytical), EDAX, and Oxford Instruments.

SGX Sensortech (MA) Limited  
www.sgxsensortech.com

## New Application Note Describes Nanomechanical Measurements on Diverse Materials Using the Asylum Research NanomechPro Toolkit



The NanomechPro Toolkit consists of both standard imaging modes that are included with every Asylum Research AFM as well as several optional techniques. The standard modes include force curves and force volume mapping, phase imaging, Bimodal Dual AC Imaging, and Loss Tangent Imaging. The optional modes include Fast Force Mapping Mode, instrumented vertical nanoindentation, force modulation imaging, AM-FM Viscoelastic Mapping Mode, and Contact Resonance Viscoelastic Mapping Mode.

Asylum Research, an Oxford Instruments company  
[www.AsylumResearch.com](http://www.AsylumResearch.com)

## Deben Reports on The Work Of The Microscopy and Histology Core Facility at the University of Aberdeen



The Microscopy and Histology Facility provide access to assorted technologies to researchers at the University of Aberdeen. One core technique is transmission electron microscopy, which was recently upgraded with the installation of a new JEOL JEM-1400,

plus TEM with AMT camera system from Deben. The current research done using this equipment is varied and includes samples such as bone cells, yeast cells, and macrophages.

Deben UK Limited  
[www.deben.co.uk](http://www.deben.co.uk)

## Princeton Instruments Releases LightField 5.0 Scientific Imaging and Spectroscopy Software

Princeton Instruments announced LightField 5.0, which allows users to take full advantage of Princeton Instruments cameras and spectrographs and incorporates hundreds of enhancements and exclusive features. Among these are an all-new “math engine” for analyzing 64-bit data in real-time, an improved “smart search” that directs users to the controls they want as they are typing, an interactive “virtual optical bench” for conveniently managing multiple experiment setups, and automatic export of data.

Princeton Instruments  
[www.princetoninstruments.com/LightField](http://www.princetoninstruments.com/LightField)

## Piezo Positioning Stage and Scanner Family Comes in 60 Variations

PI (Physik Instrumente) L.P. provides the PIHera family of compact X, XY, and Z flexure-guided piezo nanopositioning stages, offering record travel ranges to 1.8 millimeters. PIHera stages come in single-axis (horizontal and vertical), two-axis (XY), and XYZ combinations. Travel ranges start at 50  $\mu\text{m}$  and go up to 1,800  $\mu\text{m}$  (1.8 mm). A total of 60 standard variations are available, including closed-loop and UHV-compatible versions.

PI (Physik Instrumente) L.P.  
[www.pi-usa.us](http://www.pi-usa.us)

## New JEOL E-Beam Lithography System to Enhance Quantum NanoFab Capabilities



A state-of-the-art JEOL e-beam lithography system will soon be a new resource for quantum information science researchers that use the cutting-edge facilities at the University of Waterloo Quantum NanoFab in Waterloo, Ontario. The JEOL JBX-6300FS e-beam system will be used to write circuitry patterns at very high resolution and line widths as small as 8 nm. With accelerating voltage capability to 100 kV, high-resolution patterns can be written on substrates coated in thick resist.

JEOL USA INC.  
[www.jeolusa.com](http://www.jeolusa.com)

## JAI's Sweep Series of Monochrome Line Scan Cameras Now Available with CoaXPress Interface

JAI announced that the company's Sweep Series of monochrome industrial line scan cameras are now also available with the CoaXPress interface standard. The CoaXPress interface offers lower cost cables, longer cable lengths, and a single-cable solution to provide image data, camera control, and power supply. The cameras are GenICam-compliant for use with JAI SDK. A Windows user interface is provided for communications via the Ethernet port.

JAI Inc.  
[www.jai.com](http://www.jai.com)

## LaVision BioTec Reports on the Beatson Institute for Cancer Research Efforts to Understand the Behaviour of Cells in Cancer Metastasis

LaVision BioTec TriM Scope allows one to investigate cellular and molecular interactions in 3D environments in real mouse tumors. The TriM Scope is particularly important because it is optimized for deep tissue imaging and for fluorescence lifetime imaging, here used to image FRET reporters, which tell us about the activation state of pathways critical to the regulation of cell migration.

LaVision Biotec GmbH  
[www.lavisionbiotec.com](http://www.lavisionbiotec.com)

## Allied Vision Introduces New Mako Models with GigE Vision and USB3 Vision Interface

Allied Vision expands its entry-level camera family, Mako, with six new GigE Vision models ranging from VGA to 5 Megapixels. New CMOS and CCD cameras from CMOSIS, e2v, Sony, and OnSemi offer high sensitivity and up to 309 fps at VGA resolution. As a world premiere, the camera manufacturer also announced a new series of Mako models with USB3 Vision interface.

Allied Vision  
[www.alliedvision.com](http://www.alliedvision.com)