

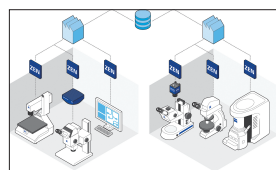
IndustryNews

Vision Engineering and Luxo Partnership Brings Magnified Collaboration

Vision Engineering, a manufacturer of unique patented ergonomic inspection systems and Luxo Corporation, part of the Glamox Group and a widely recognized manufacturer of innovative arm-based illuminated bench magnifiers and lighting solutions, have announced a new strategic business partnership. Vision Engineering will offer a full range of co-branded magnifiers to the North American and Central Europe industrial markets directly and through their authorized distribution channel.

Vision Engineering and Luxo Corporation
www.visioneng.co.uk

New Imaging Software ZEISS ZEN 2 Core



With the new release of the imaging software ZEISS ZEN 2 core, users in laboratories are now even more efficient. ZEISS ZEN 2 core is used as a powerful tool for image analysis and interactive control of

microscopes. As a lab infrastructure solution ZEISS ZEN 2 core is reflecting multi-modal workflows in connected lab environments with a single general user interface (GUI). Correlative workflows connect light, digital, and electron microscopes for more meaningful analysis.

Carl Zeiss AG
www.zeiss.com

Advanced Instruments Announces Appointment of Byron Selman as CEO

Mr. Selman, new CEO of Advanced Instruments, came from Haemonetics Corporation, where he served most recently as President of Global Markets. Prior to Haemonetics, he spent over 20 years with Pall Corporation in various executive level and general management positions. Mr. Selman's career has provided him with a broad range of experience across multiple functional disciplines including sales, marketing, business development, engineering, operations, and general management.

Advanced Instruments, LLC
www.aicompanies.com

NMRC Chooses the Quorum Q150 Coater when Coating Samples with Iridium

Quorum Technologies reports on the reliability and repeatability of metal film deposition thickness achieved by the Q150T S coater, which is important to the Nanoscale & Microscale Research Centre at the University of Nottingham. The Q150T has a very controllable, easily reproducible coat, helped by the turbo pump. The reproducibility is very important because once a thickness is found that works, one needs to be able to reproduce it to 1 nm.

Quorum Technologies Limited
www.quorumtech.com

Oxford Instruments Asylum Research Application Note

Oxford Instruments released an application note, "Toward Better Charge Storage: AFM Determines Key Electrical Double Layer (EDL) Properties in Future Ionic Liquid Electrolytes." It describes how atomic force microscopy measurements are used to advance energy storage research. Ionic liquids are candidates to replace conventional electrolytes in next-generation batteries and electrochemical capacitors, however their properties are not as well understood. The application note describes how AFM imaging and force measurements are helping elucidate ionic liquids properties at electrode interfaces.

Asylum Research, an Oxford Instruments company
www.oxford-instruments.com/AFM-Ionic-Liquid-App-Note

MIT Researchers Use Deep-Cooled Princeton Instruments FPA Camera to Advance *In Vivo* Imaging in the SWIR



Princeton Instruments hails the introduction and evaluation of a new class of high-quality, indium-arsenide (InAs)-based, short-wave infrared (SWIR)-emitting quantum dots for use as *in vivo* imaging agents by researchers

at the Massachusetts Institute of Technology. A state-of-the-art Princeton Instruments NIRvana® camera featuring a thermoelectrically cooled indium gallium arsenide (InGaAs) focal plane array (FPA) was employed in the quantum dot evaluation.

Princeton Instruments
www.princetoninstruments.com

The ZEISS Mining and Geosciences Applications Development Group Supplies and Uses Quorum's Q150T Carbon and Sputter Coater

Quorum Technologies reports on how Carl Zeiss Microscopy has incorporated their Q150T coater into the specimen preparation protocol for their ruggedized analytical solutions supplied to the mining, geosciences, and oil and gas sectors. The system, known as MinSCAN, is a mine-site mineralogy laboratory on wheels. A powerful data system enables an increase in profits through greater concentrated quality and reduced losses to tailings.

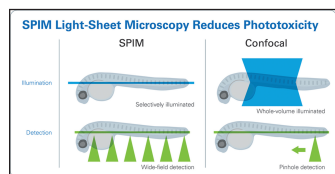
Quorum Technologies Limited
www.quorumtech.com

ULVAC Technologies Opens California Office

ULVAC Technologies, Inc., a leading supplier of production systems, instrumentation, and vacuum pumps for technology industries, has opened an office in Santa Clara, California. The Silicon Valley office location gives ULVAC West Coast customers easier access to the company's sales and service operations. It also locates company operations closer to the Japanese headquarters and various Asian markets. The new location will include a vacuum pump and leak detector repair center to serve the regional customer base.

ULVAC Technologies, Inc.
www.ulvac.com

Bruker Acquires Emerging Light Sheet Microscopy Company Luxendo



Bruker announced that it has acquired Luxendo, a privately held spin-off of the European Molecular Biology Laboratory that develops and manufactures proprietary light-sheet fluorescence microscopy instruments.

Luxendo's proprietary single-plane illumination microscopy (SPIM) technique significantly reduces sampling times over conventional laser scanning confocal microscopes, while reducing phototoxicity and damaging side effects on living specimens. This SPIM technology also enables the fastest scan speeds for volumetric imaging of small organisms, cell monolayers, and cleared tissue.

Bruker Nano Surfaces Division and Luxendo
www.bruker.com and www.luxendo.eu

Etaluma and DRVISION's Partnership Combines Lumascope Live Cell Imaging with Aivia Image Visualization and Analysis

Etaluma and DRVision's partnership combines the power of imaging by Etaluma's inverted LS microscopes and DRVision's Aivia image visualization analysis and data exploration technology. Together these products provide a powerful turnkey solution for microscopy-based assays, and especially live cell assays performed within incubators and hypoxia chambers. The products will enable users to benefit from a complete workflow from image acquisition to visualization and advanced analysis.

DRVision Technologies, LLC. and Etaluma, Inc.
www.drvttechnologies.com and www.etaluma.com

2017 WITec Paper Award for Outstanding Scientific Publications

From nearly 60 submissions for the 2017 WITec Paper Award, our jury selected the three best publications: The Gold Paper Award was conferred upon Maria O'Brien from Trinity College in Dublin (Ireland). The Silver Paper Award was given to Helena Nogueira from the University of Aveiro (Portugal). The Bronze Paper Award went to Jonas Higl from the University of Ulm (Germany) for a Raman study on hydrating of cementitious materials.

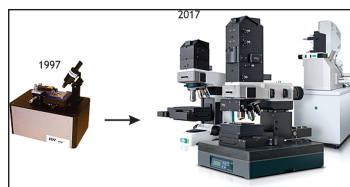
WITec GmbH
www.WITec.de

Kammrath and Weiss Return to the US Market

Kammrath and Weiss GmbH welcome back George Lanzarotta to manage sales and marketing in the United States. After several years of record growth in the European and Asian marketplace, German based Kammrath and Weiss GmbH are renewing their presence in North America. Prompted by the current success of their materials testing devices for SEM and FIB, Mr. Lanzarotta is expanding their marketing program to strengthen their position in the marketplace.

Kammrath and Weiss Technologies, Inc.
www.kammrath-weiss.com/en

20 Years at the Forefront of Raman Imaging



The Raman imaging company WITec celebrates its 20th anniversary. It was founded in 1997 as a spin-off from the Physics Department of the University of Ulm, with

employees at the Ulm headquarters and its branch offices in Spain, China, Japan, Singapore, and the USA. As reflected in the company's maxim, "Focus Innovations," WITec's success is based on introducing new technologies and a commitment to maintaining customer satisfaction with high-quality, flexible, and empowering products.

WITec GmbH
www.WITec.de

JPK Announces Collaboration with Abberior Instruments to Demonstrate STED Capability with their Nanowizard® AFM Systems

JPK Instruments announced a new demonstration capability at their Berlin headquarters. In collaboration with Abberior Instruments, visitors to JPK's applications facility will be able to see STED capability demonstrated in conjunction with the NanoWizard® AFMs. JPK and Abberior have launched a program to demonstrate the combined features of their NanoWizard® AFMs and STEDYCON systems and see real-time demonstrations of simultaneous confocal, STED, and AFM techniques.

JPK Instruments AG and Abberior Instruments
www.jpk.com

Microscope Can Scan Tumors During Surgery and Examine Cancer Biopsies in 3D

For many types of cancer, there is no reliable way to determine during surgery whether the excised tissue is completely cancer-free at its margins. A new microscope invented by a team of University of Washington mechanical engineers and pathologists could help solve this and other problems. It can rapidly and non-destructively image the margins of large fresh tissue specimens with the same level of detail as traditional pathology in no more than 30 minutes.

University of Washington
www.washington.edu/news/2017/06/26/microscope-can-scan-tumors-during-surgery-and-examine-cancer-biopsies-in-3-d

The Zeiss Global Centre in the School of Engineering at The University Of Portsmouth Uses Deben µXCT Stages to Characterize the Structural Competence of Biological Structures

Deben reports on how the new Zeiss Global Centre (ZGC) at the University of Portsmouth will use Deben's mechanical stages for *in situ* µXCT studies of the structural competence of biological structures. The ZGC is a strategic collaboration between the School of Engineering at the University of Portsmouth and Carl Zeiss Ltd.

Deben UK Limited
www.deben.co.uk