

IndustryNews

Park Systems Announces the Grand Opening of the Park NanoScience Center at SUNY Polytechnic Institute

Park System's Park NanoScience Center at the State University of New York Polytechnic Institute will be located in the NanoFab East Building of SUNY Poly's Albany campus and will be designed to become a hub for globally advanced metrology AFM research activities. It will also be equipped with the latest Park AFM systems, including Park NX20, Park SICM, and Park NX-Hivac.

Park Systems
www.parkafm.com

MBF Bioscience Unveils Whole Mouse Brain Automatic Region Delineation and Cell Mapping

Analyzing cellular populations within specific anatomies in brain images requires expertise in both neuroanatomy and cellular identification. This typically involves a scientist comparing experimental images with a reference atlas, manually delineating anatomical regions, and marking cell populations within. NeuroInfo®, a revolutionary new technology from MBF Bioscience, enables researchers to automatically identify and delineate mouse brain regions based on the publicly available Allen Mouse Brain Reference Atlas.

MBF Bioscience
www.mbfbioscience.com

Development of New Integrated Cryo-Imaging Solutions

Leica Microsystems announced a collaboration with the Centre for Structural Systems Biology. The partnership will see major collaboration between the two parties for the development of new integrated Cryo-Imaging solutions and the establishment of an advanced microscopy facility. The use of cryo-EM that deep-freezes biological samples thus enabling them to be examined in their native state at high-resolution is central to the CSSB's research and was recently the subject of the 2017 Nobel Prize for Chemistry.

Leica Microsystems GmbH
www.leica-microsystems.com

Thermo Fisher Scientific Launches TopoMAPS Software for SEM Image Analysis

Digital Surf announced that TopoMAPS software for SEM image enhancement, 3D reconstruction, and metrology is now available on Thermo Scientific SEM and DualBeam systems. TopoMAPS features SEM image colorization, and 3D reconstruction of surface topography, among a host of other functions. TopoMAPS works with all Thermo Scientific scanning electron microscopes and DualBeam systems. The new software is an ideal solution for analyzing data in various fields of industry and science.

Thermo Fisher Scientific Inc. and Digital Surf
www.thermofisher.com and www.digitalsurf.com

Prior Scientific Launches New Website

As the global leader in the design and manufacture of precision positioning devices, optical systems, automation solutions, and components, Prior Scientific has undergone a full brand refurbishment. Prior Scientific specializes in end-to-end design from single components to entire systems in microscope automation, OEM solutions, and precision components. Prior Scientific works to minimize the upfront cost of design and prototyping. Their new website features user-friendly navigation, improved functionality, enhanced rich content and a clean design.

Prior Scientific, Inc.
www.prior.com

Phasefocus™ Continues Expansion in Asia with Appointment of Chinese Distributor



Phasefocus continues to increase its global international profile with the appointment of Nuohai Life Sciences as the company's exclusive distributor for mainland China, Hong Kong, and Macau. Nuohai Life Sciences will provide sales, service, and technical support for

the Livecyte™ Cell Imaging System throughout the region, building on their reputation for introducing innovative new technologies for the life science industry into the Chinese market.

Phase Focus Limited
www.phasefocus.com

Excelitas Technologies Acquired by AEA Investors

Excelitas Technologies® Corp. announced that it has been acquired by funds sponsored by AEA Investors LP (AEA Investors). It was formerly owned by Veritas Capital Fund Management since November 2010. Excelitas Technologies is a global technology leader focused on delivering innovative, high-performance, market-driven photonic products and solutions to meet the lighting, optical, and detection requirements of a broad range of customers worldwide. Financial terms of the acquisition were not disclosed.

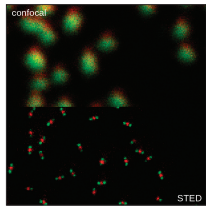
Excelitas Technologies Corp.
www.excelitas.com

Medium-Load Precision Motorized Positioning Systems Catalog from PI

A new catalog from PI includes products developed to move loads of 22 lb to 110 lb over distances up to 300 mm. It also includes rotation stages that provide rotation angles of 360° with accuracy to ±0.004°. Achieving accuracy in the micron and the sub-micron realm is critical, and stages with ballscrew/servo or stepper drive combinations can be superior to direct drive motors when it is necessary to achieve high holding force, or torque—or particularly for vertical positioning.

PI (Physik Instrumente)
www.pi-usa.us

BE-OPTICAL and PicoQuant – Pushing the Envelope in Medical Imaging

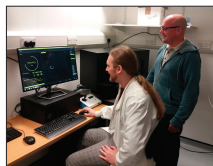


PicoQuant and the Humboldt University Berlin are co-hosting an Early Stage Researcher. The ESR is working on a Ph.D. thesis during his stay at PicoQuant that is entitled “Advanced Nanoscale Microscopy: Time-Resolved Super-Resolution Fluorescence Studies of Biological Structures.” The aim of

the project lies in exploring novel strategies based on pulsed excitation coupled with nanosecond time-resolved detection to carry out multiplexed studies of complex dynamics in biological structures under optical super-resolution conditions.

PicoQuant and the Humboldt University Berlin
www.picoquant.com

Collaboration Between the University Of Manchester and Phasefocus™ Kicks Off with Livecyte Training



Following a successful funding application, the staff at the University of Manchester, Wellcome Trust Centre for Cell Matrix Research, have become the proud owners of a Livecyte™ Cell Imaging & Analysis System. Livecyte is a unique quantitative

label-free cell analysis system, which delivers continuous tracking and analysis of individual cells within large populations, and multiple wells, enabling users to gain a more realistic and comprehensive understanding of cell behavior.

Phasefocus
www.phasefocus.com

IC Measure: Software for Image Capture and On-Screen Measurement

IC Measure is a comprehensive free software tool with a convenient user interface. It integrates image capture and enhancement functionality—for example, tone mapping, chief ray angle (CRA), optical distortion correction, stacking, etc.—with additional tools associated with microscopy software, such as on-screen calibration; measurement of lengths, surfaces, and angles; and freely configurable annotations and overlays, such as crosshairs, rulers, and grids. IC Measure is for use with all industrial cameras and frame grabbers from The Imaging Source.

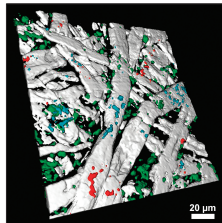
The Imaging Source
www.theimagingsource.com

JPK Instruments Announces Partnership with Swiss Company, Cytosurge AG

JPK Instruments announced their partnership with Cytosurge AG, whereby JPK users of NanoWizard®, CellHesion®, and ForceRobot® systems may now add FluidFM® technology for applications requiring the precise delivery of liquids at the femtoliter scale. Being able to isolate, manipulate, and image single and multiple cells in their natural environments is vital to researchers in many fields, making the addition of FluidFM® to AFM imaging and force spectroscopy a beneficial pairing.

JPK Instruments AG and Cytosurge AG
www.jpk.com

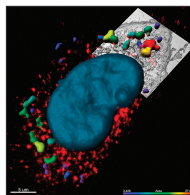
WITec Suite FIVE Software Now Features Active Focus Stabilization



WITec has started shipping its Suite FIVE data acquisition, evaluation, and processing software with the new ability to compensate for thermal and mechanical variations during long-term measurements. Confocal Raman microscopy investigations performed on delicate samples often require lower excitation power and a corresponding increase in acquisition time. Active focus stabilization ensures that the ideal focus between the microscope objective and sample is maintained and signal collection is unaffected while temperature or humidity changes.

WITec GmbH
www.witec.de

Solutions for Correlative Microscopy and the Introduction of Imaris Stitcher



Bitplane launched Imaris version 9.1 along with Imaris Stitcher. Many experiments require viewing an entire organism, organ, or tissue while also resolving features at the subcellular level. Visualizing and analyzing the resulting datasets is challenging because of either the differing sizes and resolutions

of the images or simply because of the large amount of image data generated. Imaris 9.1 and Imaris Stitcher address these challenges, delivering new functionality to the Imaris family of software.

Bitplane, an Oxford Instruments Company
www.imaris.com/newrelease

Series Production Start: Basler ace U with Sony STARVIS Sensors



Eight new ace U models with the innovative back-illuminated rolling shutter CMOS sensors from Sony's STARVIS line moved into series production. The eight new ace U models from camera manufacturer Basler feature resolutions of 6 and 12 megapixels and have now moved into series production. They are equipped with the IMX178 and IMX226 sensors from Sony's STARVIS line and deliver up to 59 frames per second.

Basler AG
www.baslerweb.com

Quorum Reports on Cryo Prep Techniques for SEM in Food Technology and Engineering

The Laboratory of Food Technology & Engineering at the University of Ghent, Belgium, applies cryo techniques to prepare food samples for study by SEM. The challenge of imaging using SEM is the ability to keep the samples in their natural state, hence the requirement to employ cryo sample prep and the selection of Quorum's PP3000T system for the task. Quorum supplies a large range of products and services to meet the needs of electron microscopists.

Quorum Technologies Limited
www.quorumtech.com