

IndustryNews

Bruker Acquires Prairie Technologies

Bruker Corporation announced that it has acquired Prairie Technologies, Inc. (Prairie), a provider of life science fluorescence microscopy products. The acquisition strengthens Bruker's position in life science markets, adding to the Bruker Nano Surfaces Division's existing life science atomic force microscopy (Bio-AFM) systems. Headquartered near Madison, Wisconsin, privately held Prairie pioneered the use of multiphoton fluorescence microscopy. The acquisition strengthens Bruker Nano Surfaces Division's position in life science markets.

Bruker Corporation and Prairie Technologies, Inc.
www.bruker.com and www.prairie-technologies.com

Molecular Devices Introduces ScanLater Western Blot Detection System

The ScanLater System is a time-resolved fluorescence based western blot detection assay, an optimal detection method that reduces stray excitation light, resulting in lower background noise and higher sensitivity. The ScanLater System comprises the ScanLater Western Blot Detection Cartridge, ScanLater Western Blot Kit, and image-acquisition software powered by SoftMax Pro® Software. ScanLater Western Blot Kits contain europium-labeled secondary antibodies designed to work with existing primary antibodies without further optimization.

Molecular Devices, LLC
www.moleculardevices.com/westernblot

New Imaging Technique Can Identify Breast Cancer Subtypes and Early Treatment Response

A light optical imaging technique that measures metabolic activity in cancer cells can accurately differentiate breast cancer subtypes, even detecting responses to treatment as early as two days after therapy administration, was published in *Cancer Research*, a journal of the AACR. Importantly, optical metabolic imaging (OMI) can be used on tissues freshly excised from patients but may be incorporated in endoscopes for live imaging of human cancers, according to the investigators.

American Association for Cancer Research
www.AACR.org

Device Library for Micro-Manager

Piezosystem jena has developed a device library for the Micro-manager open-source microscopy program. Micro-manager provides a simple user interface that allows the user to carry out microscope image-acquisition strategies including time-lapse and multi-channel imaging. The device configuration is implemented during the installation of the Micro-manager software and is completely customizable. Interfacing to piezosystem jena stages, such as our MIPOS objective focusers, Z sample stages, and 3-axis TRITOR systems, is easily accomplished.

Piezosystem jena
www.piezosystem.com

XEI Scientific Reports the Patent Awarded Recently on their New Method for Decontamination of Electron Microscopes and Other High-Vacuum Systems

XEI is pleased to announce that the company has been granted a new US patent # US8507879B2 that describes a new oxidative cleaning method and system for electron microscopes and other high-vacuum instrumentation using UV excitation in an oxygen radical source. The new method and apparatus comprises a vacuum ultraviolet light source housed in an irradiation chamber.

XEI Scientific, Inc.
www.evactron.com

Olympus 40× Silicone Oil Objective Offers Brighter, High-Resolution, Live Cell and Time-Lapse Imaging and Works with Continuous Autofocus

Olympus has introduced a 40× silicone oil microscope objective, its latest innovation in silicone immersion microscope optics. Olympus silicone oil objectives can markedly improve optical performance for live cell confocal, widefield fluorescence, multiphoton, differential interference contrast (DIC), and other applications. In contrast to water immersion objectives, silicone oil optics are useful in long-term imaging experiments where water evaporation is a pervasive issue.

Olympus America Inc., Scientific Equipment Group
www.olympusamerica.com/40xSiliconeOil

Pfeiffer Vacuum Inc. Appoints New President, Robert Campbell

Pfeiffer Vacuum is pleased to announce the appointment of Robert Campbell as president of Pfeiffer Vacuum Inc. Mr. Campbell holds a degree in business management and joined Pfeiffer Vacuum as vice-president of sales in November of 2011. For the ten preceding years, Mr. Campbell was president of a US-subsiary for a worldwide vacuum company. Pfeiffer Vacuum North American operations offer marketing, sales, field services, repair, customer training, and support.

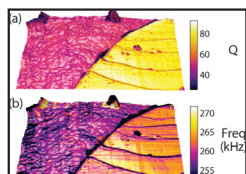
Pfeiffer Vacuum - North America
www.pfeiffer-vacuum.com

Malvern Instruments Opens a New Office in Mexico City

Malvern Instruments has opened an office in Mexico City. The Mexico office provides sales support to a growing customer base. It is also the venue for an increasing number of advanced training courses and seminars and is part of Malvern's operational expansion in Mexico and throughout Latin America as a whole. The opening of the office in Mexico follows the establishment of a sales and applications laboratory in São Paulo, Brazil.

Malvern Instruments Ltd
www.malvern.com

Asylum Research Introduces Contact Resonance Viscoelastic Mapping Mode



Asylum Research announced Contact Resonance Viscoelastic Mapping Mode, an option available exclusively for Asylum's Cypher™ and MFP-3D™ atomic force microscopes (AFMs). Contact resonance (CR) enables

high-resolution, quantitative imaging of both elastic storage modulus and viscoelastic loss modulus. The technique is particularly well suited for characterizing moderate to high modulus materials in the range of about 1 GPa to 200 GPa, including composites, thin films biomaterials, polymer blends, and even ceramics and metals.

Asylum Research, an Oxford Instruments company
www.AsylumResearch.com/ContactResonance

FEI Announces the Installation of Tecnai Arctica Cryo-TEM at Nanyang Technological University in Singapore



Researchers will combine TEM imaging with XRD and NMR to explore the structure of biological molecules and macro-molecular complexes. NTU, a young, research-intensive university, is one of the fastest rising universities in Asia. With the purchase of two FEI microscopes, the Tecnai Arctica and Tecnai with iCorr™, the new facility is equipped with industry-leading electron microscopes for single-particle analysis and correlative fluorescence imaging.

FEI Company
www.fei.com/life-sciences

Agar Has Expanded Filament Production at Their Stansted HQ

Agar Scientific has increased the production of filaments for electron microscopy. Agar filaments are specifically designed for electron microscopes for the majority of the leading manufacturers, including Cambridge/LEO/Zeiss, FEI, JEOL, and Camscan. The filaments are made with specially designed jigs, which ensure accuracy and reproducibility in production. High-ductility tungsten wire is used to minimize strain, and all filaments are stress-relieved by flashing in a vacuum at high temperatures.

Agar Scientific
www.agarscientific.com

Monash University Orders High-End TEM from FEI for Integrated Structural Biology

Monash University in Melbourne, Australia, has ordered a Titan™ Krios cryo transmission electron microscope and a Tecnai™ T12 TEM for applications in the growing field of integrated structural biology. FEI's Titan Krios TEM is one of the most powerful and flexible high-resolution cryo electron microscopes for characterization of protein structures and protein complexes. The instrument at Monash will be equipped with FEI's latest camera system, the Falcon II.

FEI Company
www.fei.com

Malvern Instruments Acquires Nanoparticle Characterization Company NanoSight



Malvern Instruments Ltd has acquired nanoparticle characterization company NanoSight Ltd. NanoSight has developed and commercialized a unique and patented technology, Nanoparticle Tracking Analysis. The company's instrumentation and software enable the rapid and simultaneous multi-parameter analysis and characterization of many different types of nanoscale particles. With their ability to analyze particle size, concentration, zeta potential, and aggregation, NanoSight systems are closely aligned with Malvern's market-leading Zetasizer range, extending Malvern's solutions for those working at the nanoscale.

NanoSight Limited and Malvern Instruments, Ltd
www.malvern.com and www.nanosight.com/products

JPK Reports on the Study of Structure and Dynamics of Biological Membranes Using AFM and Advanced Fluorescence Microscopies at the CBS in Montpellier

JPK Instruments reports on how AFM and advanced fluorescence microscopy are being applied in the study of biological membranes at the Centre de Biochimie Structurale in Montpellier (France). The CBS includes a research group focused on single-molecule physics. Dr Pierre-Emmanuel Milhiet applies AFM and advanced fluorescence microscopies in the study of both structure and dynamics of biological membranes.

JPK Instruments AG
www.jpk.com

New Attendance Record at 10th Confocal Raman Imaging Symposium

The international Raman microscopy community met from September 30 to October 2, 2013, in Ulm, Germany, to present and discuss their latest scientific results at the 10th Confocal Raman Imaging Symposium. The diverse talks and poster presentations from various scientific fields provided a comprehensive overview of modern Raman microscopy. The symposium set a record of over 110 attendees who were attracted by the interesting program and the excellent reputation of the symposium.

WITec GmbH
www.witec.de

KJLC® Announces Global Partnership with VAT® Valves

The Kurt J. Lesker Company® is pleased to announce that they will become a stocking distributor of VAT® Valves vacuum products across the globe. KJLC is pleased to be partnering with VAT, a leader in vacuum valves production. KJLC has built a reputation as a world-class distributor of quality vacuum products. KJLC offers its customers an extensive vacuum product range, unrivalled global inventory, excellent customer service, and outstanding e-commerce solutions.

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www.lesker.com