

IndustryNews

JEOL and UC Irvine Partner to Develop Premier Electron Microscopy and Materials Research Center

JEOL USA and the University of California's Irvine Materials Research Institute (IMRI) have entered into a strategic partnership to create a premier electron microscopy and materials science research facility. The IMRI will serve as an interdisciplinary nexus for the study and development of new materials, enabling advances in solar cell, battery, semiconductor, biological science, and medical technologies. This will be the first lab in Americas to install JEOL's Grand ARM.

JEOL USA Inc.
www.jeolusa.com

ASM Micrograph Database™ Adds New Peer-Reviewed Composite Micrographs and Aluminum-Lithium Alloy Microstructures

ASM International and the International Metallographic Society (IMS), an ASM affiliate, are pleased to announce an important update to the Micrograph Database. This database has recently been updated with over 200 new peer-reviewed composites and 6 new Al-Li alloy microstructures. The additional composite and alloy microstructure images supplement the growing database, which now includes more than 4,000 images and associated data and also encourages valuable peer discussion.

ASM International
www.asminternational.org

Oxford Instruments Asylum Research Releases New Application Note

Oxford Instruments Asylum Research has released a new application note, "AFM Applications in Polymer Science and Engineering," by Dr. Donna Hurley. Polymer scientists were among the first group to enthusiastically embrace AFM when it was introduced 25 years ago. This application note reviews how recent advances in next-generation AFMs from Asylum Research, including the MFP-3D Infinity™ and the Cypher™, ES have enabled scientists to learn even more about polymeric materials.

Oxford Instruments Asylum Research
www.oxford-instruments.com/AFMpolymerscience

JPK Opens New Expanded Offices in Berlin

JPK has invested in a new location in Berlin to provide increased levels of support to all customers. Demand for products based on the NanoWizard® family of AFMs continues to grow. JPK provides specialized solutions for applications ranging from bio-AFM and polymer research to surface science and nano-optics. All NanoWizard systems provide true integration of AFM with optical microscopy through the popular DirectOverlay™ feature for precise, easy use and offer numerous options and accessories.

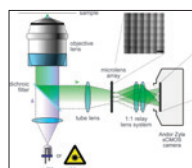
JPK Instruments AG
www.jpk.com

PicoQuant Releases Version 2.0 of the SymPhoTime 64 Software

PicoQuant has released version 2.0 of the SymPhoTime 64 software package for FLIM, FCS, and single-molecule fluorescence measurements. New features include global analysis of FCS and time-correlated single photon-counting (TCSPC) curve fitting, which especially improves cell measurements. An extended TCSPC binning functionality permits faster analysis and binary export of FLIM images. The SymPhoTime 64 comes with all MicroTime and LSM Upgrade Kit systems using PicoQuant's photon-counting modules.

PicoQuant GmbH
www.picoquant.com/news/item/picoquant-releases-symphotime64-version-2.0

Andor Zyla sCMOS Camera Enables Instantaneous Imaging of Neuronal Activity Across Whole Organism



The speed, resolution, and sensitivity of the Andor Zyla sCMOS camera has allowed the Vaziri research group in Vienna, Austria, to simultaneously image neuronal activity across an entire organism for the first time. This profound advance follows closely on their innovative widefield temporal focusing (WF-TeFo) two-photon approach to high-speed imaging of whole brains, which was also enabled by an Andor camera, the Neo sCMOS.

Oxford Instruments plc
www.andor.com

PicoQuant Appoints Mexitek as Reseller for Central and South America

PicoQuant appointed Mexitek, S.A. as its reseller for Mexico, Costa Rica, Panama, Colombia, Venezuela, and the Dominican Republic. Centrally located in Mexico City, Mexitek will handle sales and support for PicoQuant's pulsed diode lasers, photon counting instrumentation, fluorescence lifetime spectrometers, and time-resolved confocal microscopes in these countries. Through this partnership, customers in Central and South America now benefit from a local expert contact in their region for queries and support.

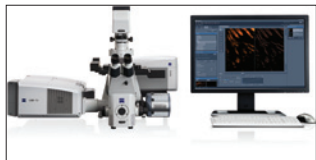
PicoQuant GmbH
www.picoquant.com

NIGHTSEA and EMS Inaugurate KEY Award in Fluorescence Microscopy for New Faculty

Fluorescence is increasingly central to many fields of research. However, fluorescence microscopy equipment can be very expensive. During the introduction of their economical Stereo Microscope Adapter (SFA), NIGHTSEA partnered with well-known accessories supplier, EMS-Diatome, to launch the first ever KEY Award. The new KEY Award is open to individuals entering their first faculty position at a US (including US territories) non-profit college or university in the Fall of 2015.

NIGHTSEA
http://bit.ly/key-award

ZEISS and the Janelia Research Campus Sign an Exclusive License Agreement



ZEISS and the Howard Hughes Medical Institute's Janelia Research Campus have signed an exclusive license agreement for the commercialization of Bessel beam plane illumination microscopy, also called lattice light sheet microscopy. The fluorescence imaging method was invented by Dr. Eric Betzig at the Janelia Research Campus. Bessel beam plane illumination microscopy allows high-speed 3D fluorescence imaging of living cellular and multicellular specimens with nearly isotropic spatial resolution, low photobleaching, and low photodamage.

Carl Zeiss Microscopy
www.zeiss.com/microscopy

attoDRY800 Cryo-Optical Table



Quantum optics experiments often require cryogenic temperatures combined with optical access. Most experimental setups contain numerous optical elements to prepare the incident light, as well as to collect and convert the emitted light from the sample. The available space on the optical table is in such cases paramount. The attoDRY800 provides a solution: it consists of an ultra-low vibration cold breadboard platform extensively integrated into an optical table, hence making use of the often unused space underneath it.

attocube systems AG
www.attocube.com

FEI Introduces New HeliScan MicroCT Advanced Imaging System for Oil and Gas During the Grand Opening of its New Digital Rock Lab

FEI introduced its new HeliScan™ microCT advanced imaging system during the grand opening of its Digital Rock Lab in Houston. HeliScan provides highly accurate, high-resolution, three-dimensional images used by oil exploration and production operators and by research institutes to support the imaging, analysis, and modeling of reservoir rocks in hydrocarbon assets. It is now available for demonstration at FEI's Houston lab.

FEI Company
www.fei.com

WITec's RISE Microscope Wins Prestigious Prism Award 2015

WITec and Tescan received a 2015 Photonics Prism Award. An expert jury named the correlative RISE microscope as winner in the metrology category. The Prism Award is given for top innovations in the field of photonics, granted by Photonics Media and sponsored by the international Society for Optics and Photonics (SPIE.). RISE Microscopy is a novel correlative microscopy technique that combines confocal raman imaging and scanning electron (RISE) microscopy within one integrated microscope system.

WITec GmbH
www.witec.de

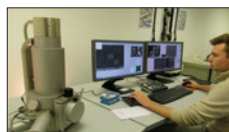
Bruker-Sponsored Sixth AFM BioMed Conference Highlights Increasing Impact of AFM in Biological Applications



Bruker recently sponsored the sixth AFM BioMed International Meeting on AFM in life sciences and nanomedicine. Held at the Sanford Consortium for Regenerative Medicine in La Jolla, CA, the conference brought together more than 125 scientists from around the world. The technical program featured talks from bioresearchers with over 100 oral and poster presentations on topics ranging from imaging and integrative atomic force microscope developments to biomechanics and biomedical applications.

Bruker Corporation
www.bruker.com

Agar Scientific Installs New Scanning Electron Microscope



Agar Scientific installed a new scanning electron microscope at its Stansted headquarters. The new SEM, TESCAN VEGA3 SBH, is already fully operational and is being used to vet Agar's range of gold-on-carbon and tin-on-carbon test specimens, which are vital for assessing SEM resolution. A full-time, in-house SEM operator performs thorough quality control checks to verify the particle size range present in the calibration standards manufactured by Agar, as well as checking for contaminants and physical defects.

Agar Scientific
www.agarscientific.com

Semrock's Master Standard Optical Filters Catalog

The current list and pricing for all Semrock standard filter optics is now available. It includes expanded single-band sets for popular LED-based light engines optimized for CFP, YFP, and mCherry fluorophores, as well as a triple-band Pinkel filter set. Also, two new E-grade quadruple-notch filters in the popular StopLine® product line, featuring transmission over 350–1,600 nm and deep OD6 blocking, and key laser wavelengths have been added. The RazorEdge Dichroic™ family has been revised to reduce sensitivity to angular tuning.

Semrock, Inc.
www.semrock.com

Edmund Optics® and FISBA OPTIK Create a Partnership

Edmund Optics® and FISBA announced a partnership to advance infrared glass molding capabilities. Together, the two companies are extending quality mass production of molded optics into nontraditional materials, specifically for infrared lenses. The joint effort will bring together the individual achievements of both companies in fabricating molded lenses from advanced materials, and the combination of their process technologies and their manufacturing and marketing expertise will lead directly to the availability of new IR optics.

Edmund Optics®, Inc.
www.edmundoptics.com