

IndustryNews

Thermo Fisher Scientific Completes Acquisition of FEI Company

Thermo Fisher Scientific Inc. announced that it has completed its acquisition of FEI Company, Inc. for \$107.50 per share in cash, or a total purchase price of approximately \$4.2 billion. The completion of the transaction follows the receipt of all required regulatory approvals. The business will become part of Thermo Fisher's Analytical Instruments Segment. "FEI is an outstanding strategic fit with our Analytical Instruments business," states Marc N. Casper, president and CEO of Thermo Fisher Scientific.

Thermo Fisher Scientific Inc.
www.thermofisher.com

Sarah Petersen to Receive 2016 KEY Award



NIGHTSEA and Electron Microscopy Sciences are pleased to award the second annual KEY Award for New Faculty to Dr. Sarah Petersen of Kenyon College. Dr. Petersen, the new Ashby Denoon Assistant Professor of Neuroscience, will receive a NIGHTSEA SFA outfitted with two excitation/emission combinations plus \$750 in supplies from the EMS catalog. The KEY Award is awarded annually and is open to individuals entering their first faculty position at a U.S. non-profit college or university.

NIGHTSEA
www.nightsea.com/sfa-sharing/key-award-winner

Olympus Microscopy Store

Olympus's new Microscopy web store makes it simple for customers to find the products they want. Customers in the United States and Canada can now purchase products when it is convenient for them, 24 hours a day, 7 days a week. Olympus manufactures products and solutions for life science applications ranging from cell culturing to cytology, pathology, neuroscience imaging, live cell imaging, education, and more. In the new web store, Olympus customers can shop for consumables and microscope accessories.

Olympus Corporation
shop.olympus-lifescience.com

SmartAlign for DigitalMicrograph

HREM Research Inc. introduced SmartAlign for DigitalMicrograph. SmartAlign corrects slow instability of probe scanning system (scan distortion) from fast-acquisition multi-frame images using rigid and non-rigid image alignment. Thus, SmartAlign restores resolution before degradation and improves image quality. In a scanning transmission electron microscope or scanning tunneling microscope, low-frequency instabilities, such as stage drift and scan distortion, change from image to image and degrade resolution even when images are added after rigid alignment.

HREM Research Inc.
www.hremresearch.com/Eng/plugin/SmartAlignEng.html

CAMECA Launches SKAPHIA Shielded Electron Probe Initiative

CAMECA announced the launch of the SKAPHIA Shielded Electron Probe Initiative, which brings together key players in the nuclear industry and nuclear research community to develop the next generation of shielded electron probe microanalyzers (EPMA). The next-generation EPMA will allow scientists to gain a deeper understanding of fuel performance, explore irradiated material behavior and radiation damage processes, develop innovative alloys and structural materials, optimize the nuclear fuel cycle, and achieve better nuclear waste management.

CAMECA, a business unit of AMETEK, Inc.
www.cameca.com

Glencoe Software and ZEISS Partner to Build Open-Source File Reader for Whole Slide Imaging



Glencoe Software and ZEISS will collaborate to extend the open-source Bio-Formats® image file conversion library to support whole slide images compressed with the JPEG XR compression scheme, like those

recorded by the ZEISS Axio Scan.Z1 virtual slide scanner. ZEISS Axio Scan.Z1 is a fast and reliable whole slide scanner for bright-field and fluorescence samples that is used to record virtual slides of tissue sections.

ZEISS Microscopy and Glencoe Software
www.zeiss.com/microscopy/ and www.glencoesoftware.com

13th Confocal Raman Imaging Symposium

WITec annually invites researchers and specialists from widely ranging fields to an international conference to share ideas and hear about the latest developments in Raman microscopy. This year 78 scientists converged to discuss topics as diverse as life science, pharmaceuticals, and materials research. With confocal Raman imaging the molecules of a sample can be chemically identified and their distribution can be imaged three-dimensionally. These benefits have recently gained recognition in biological, medical, and pharmaceutical research.

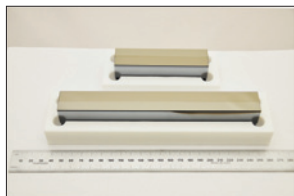
WITec GmbH
www.WITec.de

AXT Named Nanolive's Distributor of the Year

AXT has been named Nanolive's Distributor of the Year in the first year since the 3D Cell Explorer was released. This unique tomographic microscope has generated interest resulting in over 100 sales globally. The Nanolive 3D Cell Explorer is a tomographic, holographic microscope that has been designed for live-cell imaging.

AXT Pty. Ltd.
www.axt.com.au.

Rigaku Announces Synchrotron Optics Refurbishment Program and New Optics and Coatings for Synchrotron Applications



Rigaku Innovative Technologies (RIT) announces that it cleans and recoats old synchrotron optics to either retask the optics for new applications or to refurbish and repair the coatings to enhance performance. This proprietary process restores the optics' performance with less lead time and at a far lower cost than purchasing new optics. The company also offers new optics and coatings for synchrotron applications, delivering high reflectivity and precision.

Rigaku Innovative Technologies
www.rigakuoptics.com

Bruker Bio AFM Enables Advanced DNA Research at University of Leeds

Bruker's Nano Surfaces Division reports on the groundbreaking use of a *Dimension FastScan Bio™* AFM system at the University of Leeds to investigate biological and biomolecular systems. Neil Thomson's group has used the system's high-speed scanning, exceptional force control, and high-resolution performance to characterize DNA systems, such as DNA-protein interactions and DNA origami structures. Furthermore, Simon Connell's team has characterized the temperature-dependent dynamic behavior of critical biomimetic lipid membranes.

Bruker Nano Surfaces Division
www.bruker.com

Stéphane Bussa Appointed Physik Instrumente Vice President of Sales & Marketing

Motion control and nanopositioning solutions expert PI (Physik Instrumente) has named Stéphane Bussa as Vice President, Sales & Marketing, in Karlsruhe, Germany. "With Stéphane Bussa, we have found a very successful and experienced sales expert, and we are happy that someone within the PI Group takes this great career opportunity," said Dr. Karl Spanner, President and CEO of the PI Group.

PI (Physik Instrumente)
www.physikinstrumente.com

Semrock Launches SearchLight™ App for iPhone & iPad

Semrock, a unit of IDEX Health & Science, LCC, the global authority in fluidics and optics for the life sciences market, has launched the SearchLight app for iPhone & iPad. SearchLight is an online modeling resource for fluorescence microscopists and optical system designers. With the launch of the SearchLight app, all of the popular features of the online version are now available on mobile devices.

Semrock, a unit of IDEX Health & Science, LLC
www.idex-hs.com

Reducing Photobleaching Effects in STED Microscopy



Onefive announced further microscopy developments obtained with the use of its Katana HP laser as STED laser. This Katana HP laser was developed as a depletion laser for STED super-resolution fluorescence microscopy. STED microscopy can in principle

achieve unlimited resolution, but in reality it is limited by effects like photobleaching, which damages the samples. Scientists have found a solution by combining time-gated detection techniques with the use of the Katana HP laser as an STED laser.

Onefive GmbH
www.onefive.com

Olympus Discovery Center at the University Of Texas at Dallas Brings Leading-Edge Microscopy Tools to Researchers

Olympus opened the Olympus Discovery Center at the University of Texas at Dallas, which makes advanced microscopy equipment accessible to researchers. The Olympus Discovery Center reflects one of the core philosophies of Olympus—that of supporting researchers by providing innovative microscopy equipment to help them push forward the frontiers of science. The Olympus Discovery Center houses some of the most advanced Olympus light microscopy equipment.

Olympus Corporation
www.olympus-lifescience.com

TMC Names Darren Chao Technical Manager for Asia

With the growing global demand for advanced vibration cancellation systems, TMC found it crucial for its in-house experts to provide technical support at regional activity hubs around the world. Mr. Chao has a very strong background in floor vibration control measurement and analysis and in providing application support of vibration-sensitive tools. He is responsible for providing advanced technical support for TMC's Asian customers and for providing training and support to TMC's staff in Asia.

TMC is a unit of AMETEK Ultra Precision Technologies
www.techmfg.com

Five New Microanalysis Application Notes Released

Oxford Instruments has just released five application notes covering all aspects of microanalysis, from microstructural analysis to advanced EDS at the nanoscale in a FEGSEM, to simultaneous EELS analysis in the TEM. The note titles are: *EBSD Characterization of high-strength lightweight steel*, *Simultaneous EDS & EELS in the TEM*, *EDS Characterization of an additively manufactured Ni-base superalloy*, *Nanometer scale EDS analysis using low-kV FEGSEM and a windowless EDS detector*, and *EBSD: Discriminating phases in steels*.

Oxford Instruments
www.oxford-instruments.com