

IndustryNews

UNF-MSERF Houses State-of-the-Art TESCAN Biological Microscope

The University of North Florida has partnered with TESCAN in the installation of one of its new Q-Phase microscopes, a unique instrument for quantitative phase imaging based on holographic microscopy. The Q-Phase microscope is a one-of-a-kind holographic microscope capable of imaging live cells for up to five days. The agreement between the university and TESCAN provides UNF the opportunity to house brand-new and unique microscopes for instrument validation and demonstration for potential users.

TESCAN USA
www.tescan.com

Princeton Instruments Honored by Laser Focus World 2018 Innovators Awards Program



Princeton Instruments announced that its BLAZE[®] spectroscopy CCD camera was recognized by the judges of the annual Laser Focus World Innovators Awards program. The BLAZE camera design incorporates new super-deep-depletion HR-Sensors, which offer the highest near-infrared quantum efficiency of any spectroscopic CCD available, or new deep-depletion LD-Sensors, which are specially engineered to provide extremely low dark current (thus allowing long exposures in demanding spectroscopy applications).

Princeton Instruments
www.princetoninstruments.com

New Microscope Installed at the University of Leeds

In a joint effort by PicoQuant and JPK Instruments, a highly versatile microscope that combines AFM with fluorescence lifetime imaging microscopy (FLIM) has been installed at the University of Leeds. This integrated solution enables researchers to obtain structural information from biological samples with resolutions down to the molecular level while recording the fluorescence behavior of a wide variety of probes from the same sample area. The system combines AFM and optical/FLIM information in a simple and straightforward way.

PicoQuant and JPK Instruments AG
www.picoquant.com

JEOL and Digital Surf Partner to Launch SMILE VIEW[™] Map Software

JEOL and Digital Surf, creator of Mountains[®] surface and image analysis technology, announced the release of SMILE VIEW[™] Map software for users of JEOL's cutting-edge scanning electron microscopes. This is a highly accurate tool for SEM data imaging, analysis, and metrology. The new software will enhance customer experience and will provide the JEOL SEM community worldwide with an extensive selection of tools, all consolidated in one easy-to-use software interface.

JEOL Ltd and Digital Surf
www.digitalsurf.fr/pressreleases/2018-04-PR-Jeol-Digital-Surf.pdf

Collaboration Announced between Princeton Instruments and the Center for Structured Organic Particulate Systems on Novel Pharmaceutical Technology

Princeton Instruments (PI) and the Center for Structured Organic Particulate Systems (C-SOPS) are pleased to announce a six-month collaboration on a novel pharmaceutical technology that enables close monitoring and control of drug manufacturing processes. C-SOPS works closely with industry leaders and regulatory authorities to improve the way pharmaceuticals, foods, and agriculture products are manufactured.

Princeton Instruments
www.princetoninstruments.com

Formal Opening of PicoQuant's Application Center in China

PicoQuant and ETSC Technologies celebrated the formal opening of PicoQuant Application Center China in Wuhan. The new Application Center will be serving potential customers from all over China, providing them with the opportunity to perform test measurements with their samples on PicoQuant's time-resolved fluorescence spectrometers and microscopes. The center starts out equipped with a FluoTime 300 spectrometer featuring most currently available accessories and will receive the MicroTime 200 confocal fluorescence microscope.

PicoQuant
www.picoquant.com

New Key Players Join the CoolLED Team

CoolLED welcomes Brad Reynolds who will be responsible for field sales management across the US East Coast. Brad sold microscopes for an Olympus distributor, a Leica distributor, and Zeiss. Chris Deeks with a 2010 degree from U. Leicester worked for Thermo Fisher Scientific. Chris joins us as Field Sales Manager for the UK and Ireland. Danielle Love will be the Field Sales Manager for Southern and Central Europe. Her degrees are from U. Southampton and U. Kent.

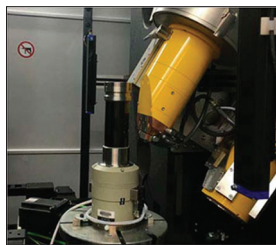
CoolLED Ltd
www.coolled.com

Bruker Acquires Anasys

Bruker announced that it has acquired Anasys Instruments Corp., which develops and manufactures nanoscale infrared spectroscopy and thermal measurement instruments. This acquisition adds to Bruker's portfolio of Raman and FTIR spectrometers, as well as to its nanoscale surface science instruments, such as atomic force microscopy and white-light interferometric 3D microscopy. Anasys Instruments Corp. has pioneered the field of nanoprobe-based thermal and infrared measurements. Recently Anasys introduced a high-performance 10-nanometer-resolution nanoIR imaging instrument.

Bruker Corporation
www.bruker.com

Penn State University Uses Deben's CT5000 Stage with X-ray Computerized Tomography to Study Solid State Mechanics of Advanced Biomaterials



Deben, a leading provider of *in situ* testing stages and innovative accessories and components for electron microscopy, is integral to the studies of the research group of Dr. Jing Du in the Department of Mechanical Engineering at Penn State University. They use the CT5000 stage with X-ray

computed-tomography (CT) to study the mechanical properties of advanced materials and composites.

Deben
www.deben.co.uk

2018 WITec Paper Award for Outstanding Scientific Publications

WITec recognizes three publications that stand out regarding originality, significance, and feature data acquired with a WITec microscope. GOLD: Yosef et al.: "Noninvasive diagnosis of high-grade urothelial carcinoma in urine by Raman spectral imaging," *Analytical Chemistry* 89(12) (2017) 6893–99; SILVER: Gernhardt et al.: "Tailoring the morphology of responsive bioinspired bicomponent fibers," *Macromolecular Materials and Engineering* 303 (2018) 1700248; BRONZE: Yu et al.: "Characterization intracellular ice formation of lymphoblasts using low-temperature Raman spectroscopy," *Biophysical Journal* 112 (2017) 2653.

WITec GmbH
www.witec.de

New Leica Microsystems Reference Site is the First of its Kind in Israel

Leica Microsystems announced a new collaboration with the Bar-Ilan University, Ramat-Gan, Israel. The new agreement aims to promote and establish Bar-Ilan as a new reference site for Leica products and workflows. The collaboration establishes state-of-the-art microscopy at the faculty, including several confocal microscopes. Amongst them is a Leica TCS SP8 STED 3X super-resolution system, enabling researchers to see beyond the limits of conventional microscopy techniques.

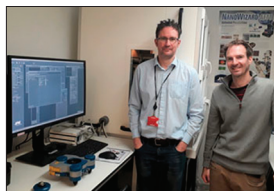
Leica Microsystems and Bar-Ilan University
www.leica-microsystems.com

UCLA and Leica Establish Center of Excellence in Microscopy at California NanoSystems Institute

UCLA, in collaboration with Leica Microsystems, Inc., has established the Leica Center of Excellence at UCLA. The unit will provide a framework to fast-track the commercial development of new optical microscopy tools and methods. Over the next five years, the center will support CNSI's objectives of educating the next generation of scientists and engineers and providing state-of-the-art technologies to enhance UCLA's standing as a leading academic research institution.

UCLA and Leica Microsystems, Inc.
cnsi.ucla.edu

Professor Guillaume Charras Studies the Fundamental Mechanical Properties of Cells and Tissues at the London Centre for Nanotechnology



The group used AFM from JPK Instruments allowing a quantitative method for estimating mechanical properties. The expanded *z*-range of JPK's CellHesion® 200 allows studies on cultured and embryonic tissues. The recent purchase of a

NanoWizard® 4 BioScience AFM system will allow the group to image changes in the organization of the submembranous actin cortex (the main determinant of cell shape) as the cell undergoes mitosis.

JPK Instruments AG
www.jpk.com

Princeton Instruments Proprietary Data Format Added to Eigenvector PLA_Toolbox and Solo Software

PI and Eigenvector Research, Inc. announced the addition of PI's proprietary spectral and imaging data format (.SPE) to Eigenvector's upcoming versions of their PLS_Toolbox and Solo software. Princeton Instruments provides products such as FERGIE and IsoPlane spectrometers and BLAZE CCD detectors for qualitative and quantitative Raman, photoluminescence, absorption, and hyperspectral imaging measurement. The .SPE data format used by PI's LightField software is a flexible data format that stores spectral and imaging data.

Princeton Instruments
www.princetoninstruments.com/Lightfield

STM Probes from NaugaNeedles

NaugaNeedles empowers researchers and scientists through cutting-edge nanoprobe solutions. NaugaNeedles has developed a propriety recipe to fabricate ultra-sharp high-aspect ratio probes using W and Pt/Ir wire. Scanning tunneling microscopy (STM) probes are an example of high-quality products they offer. The probes come at different shapes, materials, and sharpness. NaugaNeedles STM tips can be custom made to any probe holder and prepared at the desired length and wire diameter.

NaugaNeedles
www.nauganeedles.com/W_Probe.html

New Facility Provides Larger Space, New Labs, and Production Facilities

HORIBA Scientific announced that it has moved to a new location in Piscataway, New Jersey. The new facility comprises 132,000 square feet of office, engineering, manufacturing, laboratory, and cleanroom spaces, approximately double their previous facility size. Over 6,400 square feet of new applications labs showcase HORIBA Scientific's extensive product line and can be used for applications training, method development, and product demonstrations.

HORIBA Scientific
www.horiba.com/scientific