

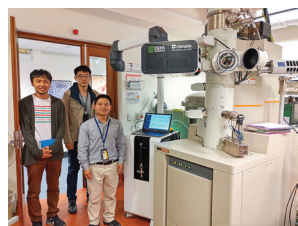
## IndustryNews

### Verder Scientific Division Acquires Microtrac, Inc. and MicrotracBel Corporation

In conjunction with Retsch Technology, Microtrac, Inc. and MicrotracBel Corporation have been amalgamated into Microtrac MRB. This constitutes a major advancement for these three companies, and the consolidation creates a major player in the particle characterization field.

Verder Scientific  
www.verder-scientific.com

### DENSsolutions First Climate G+ System in Australia



DENSsolutions celebrated the installation of the first Climate G+ *in situ* TEM platform in Australia. Dr. Vijay Bhatia at the Australian Centre for Microscopy and Microanalysis, who oversees the Sydney Microscopy and Microanalysis core research

facility at the University of Sydney, was a key decision-maker in the world's first Lightning STEM stage, which established his relationship with DENSsolutions and ultimately led to the installation of the Climate G+ *in situ* TEM platform.

DensSolutions  
https://denssolutions.com

### CRAIC Technologies Expands Services in Asia

CRAIC Technologies manufactures UV-visible NIR microscopes and Raman microspectrometers. With a need for a greater presence in Asia due to expanding markets and increased sales, CRAIC Technologies now offers regional sales and support from its facility in Songdo, Incheon, South Korea. The new office provides rapid communication and flexibility in meeting rising customer demand in the eastern hemisphere and serves both current and future customers in the region with a high-technology infrastructure.

CRAIC Technologies  
www.microspectra.com

### Sartorius Provides A Guide to Real-Time Live-Cell Imaging and Analysis eBook

Real-time live-cell imaging and analysis is redefining cell biology. Researchers apply the technique to a wide range of phenotypic cellular assays, including cell proliferation, cell death and apoptosis, immune cell killing, migration, chemotaxis, angiogenesis, neurite outgrowth, and phagocytosis. In each case, the full time-course data and videos from the assays provide greater biological insight than end point assays. To download the ebook, visit the website below.

Sartorius  
https://offers.the-scientist.com/a-guide-to-real-time-live-cell-imaging-analysis-sartorius-ebook

### RPMC Lasers Announces Exclusive Partnership with LASOS

RPMC Lasers Inc., a laser distributor in North America, is excited to announce an exclusive distribution agreement with LASOS (www.LASOS.com) that will cover their He-Ne and Argon-ion laser product lines. LASOS manufactures gas lasers in Europe with a focus on OEM applications in the biophotonics market, including microscopy, Raman spectroscopy, and holography.

RPMC Lasers, Inc.  
www.rpmclasers.com

### JEOL Acquires Integrated Dynamic Electron Solutions (IDES)



JEOL Ltd. has acquired Integrated Dynamic Electron Solutions, Inc. (IDES). IDES's technology will upgrade JEOL TEM systems to "ultrafast time-resolved TEMs"

capable of capturing still and dynamic images in nano- to femto-seconds and recording them with nanometer-scale spatial resolution. These innovative systems can be used to explore dynamic and quantum phenomena beyond the reach of conventional TEM and in the future can also be upgraded for life sciences applications such as studies of protein movement.

JEOL USA  
www.jeolusa.com

### JEOL USA Appoints Vice President



Thomas Isabell has been promoted to Vice President, JEOL USA. A member of the JEOL management team since 2003, Isabell's most recent position was Director of Product Management, overseeing

a team of product managers and scientists responsible for sales support, customer technical support, instrument demonstrations, and analytical development for JEOL scientific instrument products.

JEOL USA  
www.jeolusa.com

### Olympus Scientific Cloud™ v. 3.0

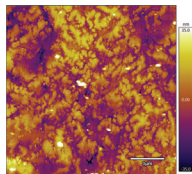


Olympus Scientific Cloud (OSC) version 3.0 offers powerful new tools that simplify data organization, enabling users to leverage the Internet of Things and Industry 4.0 for their inspection and analytical applications. Accessed

directly from the Olympus-IMS website, a streamlined user interface, new App Marketplace, instrument fleet, personnel management tools, and cloud data storage are available.

Olympus  
www.olympus-ims.com

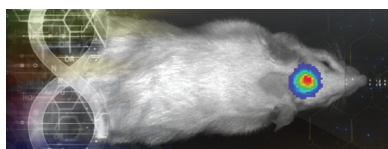
## Asylum Atomic Force Microscopy (AFM) Investigation of Tribofilm Formation



Surface friction of mechanical systems is costly and a leading factor that reduces energy efficiency. AFM can be used to investigate these sliding interfaces at the nanoscale and how they alter the frictional characteristics of points of contact. A new application note from Asylum Research examines how “tribofilms” form at these interfaces and how an AFM tip can be used as a tribometer.

Oxford Instruments/Asylum Research  
<https://afm.oxinst.com/tribofilm>

## Aura Image Analysis Software



*Aura* is a comprehensive, feature-rich software analysis tool for optical imaging. The seamless, end-to-end

workflow—from acquisition to analysis—maps user journeys through the most complex protocols, providing breakthrough productivity. With Integrated Instrument Control, Acquisition and Analysis, Overlay for Multiple Modes (BLI, FLI, X-ray) with Advanced High Productivity Image Manager, *Aura* enables you to capture and analyze your data quickly, easily, and accurately.

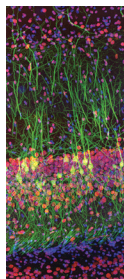
Spectral Instruments Imaging  
<https://spectralin vivo.com/software>

## Olympus Supports FMC/TFM Training with OmniScan™ X3 Flaw Detectors

Olympus, a leading manufacturer of nondestructive testing (NDT) inspection equipment, is delivering new OmniScan X3 phased array flaw detectors with FMC/TFM to the University of Ultrasonics to support their advanced training courses. The University of Ultrasonics trains inspectors for certification in FMC/TFM to meet the American Society of Mechanical Engineers (ASME) requirements. Their advanced ultrasonic training helps them prepare technicians to use cutting-edge NDT technology to perform critical inspections across industries.

Olympus Corp.  
[www.olympus-ims.com/en/news](http://www.olympus-ims.com/en/news)

## The Art of Science



Olympus has announced the winners of the first Global Image of the Year Award. The global winner is Ainara Pintor (Spain) for a stunning fluorescence super-resolution confocal image showing the immunostaining of *Thy1*-EGFP in a mouse brain slice with two fluorophores. The green is the excitatory hippocampal neurons, which express Green Fluorescent Protein under *Thy1* promoter.

Olympus  
[www.olympus-lifescience.com/en/landing/ioty-2019](http://www.olympus-lifescience.com/en/landing/ioty-2019)

## Springer Handbook of Microscopy by Peter Hawkes and John Spence



The new *Handbook of Microscopy* comprehensively covers the fundamentals, instrumentation, and applications of modern microscopy techniques. Written for a broad audience, separate chapters are devoted to confocal, fluorescence, and related optical microscopies; coherent diffractive imaging; scanning probe microscopy; transmission electron microscopy in all its modes from aberration corrected and analytical to *in-situ* and time-resolved; low-energy electron microscopy; photoelectron microscopy; cryo-electron microscopy in biology; and ion microscopy.

Springer International Publishing  
[www.springer.com/gp/book/9783030000684](http://www.springer.com/gp/book/9783030000684)

## Real-Time Protein Dynamics with Live-Cell Immunocytochemistry



Immunocytochemistry allows researchers to obtain information about protein presence, location, and activity—information instrumental to our capacity to identify cellular phenotypes and understand mechanisms that govern cell behavior. Live-cell analysis is used extensively to study cellular behavior but has not been a popular option for studying protein expression dynamics.

Technological advancements and modified ICC protocols now add a temporal dimension to ICC-obtained data. See below to download an original book from Sartorius and *The Scientist*.

Sartorius  
<https://offers.the-scientist.com/real-time-protein-dynamics-with-live-cell-immunocytochemistry-sartorius-ebook>

## TriFoil Imaging Partners with Johns Hopkins University to Advance Pre-Clinical Optical Imaging Applications



TriFoil Imaging announced a partnership with the Division of Cancer Imaging Research at Johns Hopkins University (JHU) under the direction of Dr. Zaver Bhujwala. JHU researchers will use 360°

3D fluorescence imaging capability in the InSyTe FLECT/CT system to develop sophisticated pre-clinical models for cancer research and treatment. Optical modalities deep inside the live mouse will be used to investigate disease mechanisms and treatments for many cancers.

TriFoil Imaging  
[www.trifoilimaging.com](http://www.trifoilimaging.com)

## RPMC Lasers Announces Exclusive Partnership with LUXMUX

LUXMUX, who designs and manufactures photonic solutions, and RPMC Lasers Inc., a laser distributor in North America, have announced an exclusive distribution agreement for their broad-spectrum, BeST-SLED® laser products. LUXMUX aims to establish a leadership position in development and deployment of broadband and ultra-wide tunable light sources, supporting applications within various industry sectors, including but not limited to, fiber optic sensing, metrology, industrial and medical imaging, spectroscopy, optical component testing, and telecom test equipment.

RPMC Lasers, Inc. and LUXMUX Technologies  
[www.rpmclasers.com/manufacture/luxmux](http://www.rpmclasers.com/manufacture/luxmux)