

## IndustryNews

### Tousimis Introduces Post Process Data Review Feature



Tousimis has announced a Post Process Data Review feature for both the Autosamdri-931 and Touchscreen Stand-Alone Critical Point Dryer systems. Users may now review process run data points from start to finish. This allows fine-tuning of the process for specific sample types that will improve results and reproducibility. Process advice or troubleshooting also becomes much easier with this new feature. The touchscreen 931 previously won the *Microscopy Today* Innovation Award for other features.

Tousimis  
[tousimis.com/critical\\_point\\_dryers/931.html](https://www.tousimis.com/critical_point_dryers/931.html)

### RPMC Lasers Expands into a New Facility to Support Current Growth Rate



RPMC Lasers Inc. announced the completion of their new facility in O'Fallon, MO. This newly renovated 6,00-square-foot facility will enable RPMC lasers to keep up with and accelerate the rapid growth they have been experiencing over the past several years. This new location features multiple conference rooms, expanded shipping and inventory areas, a larger office area, and an expanded laser lab for testing and applications services.

RPMC Lasers Inc.  
[www.rpmclasers.com](http://www.rpmclasers.com)

### Tomocube 3D Microscope Captures Key Cellular Dynamic Responses to Parkinson Drug Treatment

A Korean research team led by Su-A Yang and Jonghee Yoon of the KAIST Institute of Health Science and Technology has demonstrated quantitative morphological profiling of individual neurons using the Holotomography technology developed by Tomocube. Their results show the development of apoptotic features in early PD progression, and the team believes its novel approach opens up new opportunities for the quantitative investigation of the pathophysiology of other neurodegenerative diseases.

Tomocube, Inc.  
[www.tomocube.com](http://www.tomocube.com)

### New Application Note about the Pixel-Based Polarizer

The Mako G-508B POL polarizer camera is equipped with the new Sony Polarsens™ 5.0 Megapixel IMX250MZR CMOS sensor that incorporates the latest four-directional polarization filter technology. The on-chip nanowire polarizing layer supports four orientations: 90°, 45°, 135°, and 0°. Four pixels together build a calculation unit to determine for each pixel the intensity and angle of polarization, similar to the debayering of an RGB or color sensor.

Allied Vision Technologies GmbH  
[www.alliedvision.com/index.php?id=449&no\\_cache=1](http://www.alliedvision.com/index.php?id=449&no_cache=1)

### AI Crystallographer – Fully Automated Atom Finding

We have recently expanded the Pycroscopy package for imaging data analysis to include workflows for deep/machine learning analysis of atomically resolved data. Pycroscopy takes a data-centric approach, wherein the raw data are acquired from the instrument, processed, and analyzed, and intermediate results are formatted according to Universal Spectroscopy and Imaging Data and stored in a single HDF5 file. The new repository is called AI Crystallographer, a Jupyter-notebook-centric open-source package for machine learning-based analysis of atom-resolved data.

Oak Ridge National Laboratory  
[github.com/pycroscopy/AICrystallographer](https://github.com/pycroscopy/AICrystallographer)

### WITec alpha300 Ri Wins SelectScience Scientists' Choice Award

The WITec alpha300 Ri inverted Raman microscope has been honored directly by the worldwide readership of SelectScience. net with the Scientists' Choice Award for Best New Product in the category of Spectroscopy. This greatly coveted award in a highly competitive category was voted on by researchers themselves. SelectScience announced the winners of the annual Scientists' Choice Awards during the Pittcon 2019 Conference and Expo, one of the world's most important laboratory equipment events.

WITec GmbH  
[www.witec.de](http://www.witec.de)

### HoloLive! for DigitalMicrograph

HoloLive! reconstructs and displays the phase from electron holograms in real-time at the microscope during experiments. HoloLive! is the plug-in for DigitalMicrograph that was jointly developed with CEMES-CNRS, Toulouse, France. HoloLive! comes with a handy window for controlling procedures and output. HoloLive! supports live reference hologram correction and live phase unwrapping. Seeing the phase live with HoloLive! facilitates any holography observation and is essential for *in situ* and operando work.

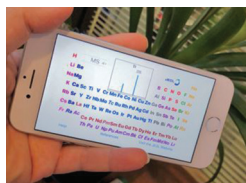
HREM Research Inc.  
[www.hremresearch.com](http://www.hremresearch.com)

### Confocal.nl Receives Dutch Academic Startup Award

Technology innovators in super-resolution microscopy, Confocal.nl, has been selected as one of ten winners of the Academic Startup Competition in the Netherlands. The award enables them to pitch for future investment at the Global Entrepreneurship Summit and to go on a trip to Silicon Valley sponsored by the Ministry of Economic Affairs. There they will have the opportunity to learn how they can scale up their innovation faster and take the step from start-up to scale-up.

Confocal.nl  
[www.confocal.nl](http://www.confocal.nl)

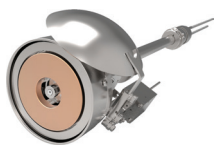
## A New App for the Periodic Table



The International Year of the Periodic Table is 2019, and JEOL has developed a new app, available through the Apple App Store. Included in this app is all related elemental data for these three major applications: mass spectrometry (one clicks to display the isotopes of each element), energy-dispersive X-ray spectroscopy (one clicks to display the characteristic X-ray energies for that element), and nuclear magnetic resonance spectroscopy (one clicks to display method-specific information for stable isotopes).

JEOL USA  
www.jeolusa.com

## Kurt J. Lesker Company® Awarded a Patent for its Hermetically Sealed Cathode Design



The Kurt J. Lesker Company announced that it has been awarded a patent that covers a novel design that reduces the number of seals in a cathode. Unwanted gas loads due to permeation through the cathode have been completely eliminated. These mechanical enhancements increase the available active area of the sputtering target and enable the cathode to operate at half the typical pressure achievable with conventional cathode designs.

Kurt J. Lesker Company  
www.lesker.com

## Nikon Metrology NV and Pixelink Announce New Strategic Partnership



Nikon Metrology NV, innovator in measuring and precision instruments, and Pixelink, leader in design and manufacturer of high-quality industrial cameras, announced they are entering into a strategic partnership to accelerate sales of affordable industrial microscopy cameras in Europe. As part of this collaboration, Nikon Metrology NV will distribute Pixelink cameras as stand-alone solutions or integrated with Nikon NIS-Elements Microscope Imaging Software.

Nikon Metrology and Pixelink®, a Navitar Company  
www.nikonmetrology.com and www.pixelink.com

## Agar Scientific Launches Uranium-Free UA-Zero® EM Stain

Agar Scientific has unveiled the latest addition to its range of microscopy stains, UA-Zero® EM Stain, a non-radioactive alternative to the traditional Uranyl Acetate. UA-Zero is a direct replacement for Uranyl Acetate, offering comparable results from the same standard processes, while simultaneously eliminating the safety and logistical issues associated with stains derived from uranium. In contrast to Uranyl Acetate, it does not require specialist handling and disposal and can be exported worldwide.

Agar Scientific  
www.agarscientific.com

## ioLight Granted US Patent on Innovative Portable Microscope



ioLight has obtained a United States Patent entitled “Digital Portable Microscope.” The focus of the patent is the microscope’s unique folding feature, making it compact and light enough

for in-the-field use. The ioLight portable microscope has a resolution of 1 micron with built-in illumination from both above and below the sample. A glass sample stage allows for samples up to 25 mm thick, or samples mounted on standard microscope slides.

ioLight  
iolight.co.uk

## New Chief Marketing Officer at PicoQuant

Frederik Siegmann joined PicoQuant as chief marketing officer to pursue a holistic approach including product management, marketing communication, and brand management. “We are very glad that we were able to hire an internationally experienced B2B marketing expert such as Frederik Siegmann,” said Rainer Erdmann, Managing Director of PicoQuant. “He will consequently advance our brand positioning and establish a customer-centric product management at PicoQuant so we even better understand and solve our customers’ future challenges.”

PicoQuant Photonics North America Inc.  
www.picoquant.com

## Download a Free 76-Page Application Booklet: Ion Beam Sample Preparation for SEM

Cutting and polishing samples with a Leica EM TXP prior to examination reduces time-consuming routine sample preparation. The booklet contains information about how ion beam milling is useful: generating cross-sectional sample preparation for different materials (semiconductor, metal, stones, paper/wood materials, and thermally sensitive samples); cleaning sample surfaces and setting contrast enhancement; processing large sample surfaces; and preparing samples for EBSD.

Leica Microsystems  
www.leica-microsystems.com/booklet-ionbeam/?nlc=20190711-SFDC-007263

## Slim LED Transmitted Light Illumination Base

Users of Olympus’s SZX™ and SZ™ series stereo microscopes and the MVX10 fluorescence microscope can expand their observation with the 41.5 mm LED transmitted light illumination base. The base contains a unique, easy-to-use turret system that can be loaded with up to four cartridges. Nine cartridges are available, offering different observation methods, such as bright field and dark field. Users can easily switch the cartridge by rotating the turret to quickly find the optimal observational conditions for their samples.

Olympus Life Sciences  
www.olympus-lifescience.com