

IndustryNews

Researchers Localized Individual H Atoms in Nanostructures Using Cryo-Transfer LEAP Atom Probe

Scientists from ETH Zürich and Oxford University have succeeded in mapping volatile hydrogen atoms in metal using the first “cryo-transfer” LEAP®. Researchers at the University of Oxford, investigating the origins of hydrogen embrittlement, have teamed up with the materials research team at ETH Zürich that developed a unique cryogenic transfer protocol for its LEAP Atom Probe that allows researchers to immobilize the highly diffusive hydrogen before APT analysis.

AMETEK CAMECA
www.cameca.com

NovAliX Turns to High-Resolution Cryo-Transmission Electron Microscopy for Pre-Clinical Drug Discovery Research

A new contract research laboratory operated by France-based NovAliX will provide pharmaceutical companies with access to high-resolution cryo-transmission electron microscopy for facilitating small molecule and biologic drug discovery. NovAliX's new laboratory will use the cryo-TEM to provide 2D and 3D characterization of small molecule and biological samples. NovAliX has completed its first program with a Japanese pharmaceutical customer. It has multiple projects planned with some of the top pharmaceutical companies.

Thermo Fisher Scientific Inc.
www.thermofisher.com

iF Awards Recognize Olympus' Smart Microscope Design

Globally renowned as a symbol of design excellence, the iF design awards celebrate the best in user-focused, ergonomic, and efficient design. With over 5,000 submissions from 70 countries, Olympus Scientific Solutions Division has received two of these prestigious awards for its CX23 upright microscope and FLUOVIEW FV3000 confocal laser-scanning microscope. Recognition for both the FV3000 and the CX23 underlines the importance Olympus places on design excellence across its entire range of life science microscopes.

Olympus Corporation
www.olympus-lifescience.com (Life Science) and
www.olympus-ims.com (Industrial Products)

Linkam's Cryo-Stage is Chosen by JPK Instruments for Their NanoWizard® AFM Systems

JPK Instruments chose Linkam Scientific Instruments to supply a customized version of one of their cryo-stage systems to enable surface properties to be studied over an extended temperature range. Bringing their technologies together has enabled JPK to offer cryo-stage capability for their NanoWizard® AFM systems. This means AFM users may now study surface property changes as a function of temperature over the range of -120 °C to +220 °C.

Linkam Scientific Instruments Limited
www.linkam.co.uk

JEOL Exhibits InTouchScope SEM and Cross Section Polishing Abilities

The JSM-IT300HR is an all-new InTouchScope™ series SEM designed to make SEM accessible to everyone. All the controls are at your fingertips with its intuitive software interface. The operator can use the multi-touch interface along with keyboard and mouse. Advanced automatic algorithms produce clear images in a snap. A “Navi” mode guides operation from sample introduction to automatic condition setting. The JSM-IT300HR provides expanded performance over traditional SEMs at an attractive price.

JEOLUSA
www.jeolusa.com

SCION Instruments Announces Improved Service Contracts for Varian, Bruker, SCION GC, and GCMS Instruments



SCION Instruments announced improved service contract structures and pricing for 2017. Laboratories with GC and GCMS instruments from Bruker, Varian and SCION can be serviced by SCION. Services include a full range of preventative maintenance and emergency call-out service contracts structured to meet the varying needs of laboratories from research to high-volume service laboratories in 24/7 environments. Along with service, SCION Instruments carries a full range of spares.

SCION Instruments
www.scioninstruments.com

SearchLight™ Celebrates its Fifth Anniversary

SearchLight is an online spectral plotting and analysis tool that allows fluorescence microscope users and optical instrument designers to model the spectral performance of fluorophores, filter sets, light sources, and detectors as components of an overall system. SearchLight contains an extensive library of over 750+ fluorophores, 100+ light sources, more than a dozen detectors, and Semrock's library of filters and filter sets. Its intuitive user interface makes it easy to manipulate spectral component specifications and plot spectral results.

Semrock, a unit of IDEX Health & Science, LLC
searchlight.semrock.com

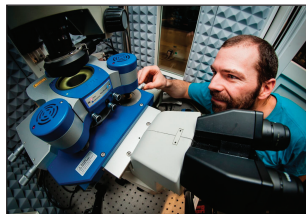
“Cysteine Rose” Wins 2016 Thermo Fisher Scientific Electron Microscopy Image Contest



Italian Institute of Technology's Andrea Jacassi is the grand prize winner of the Sixth Annual 2016 Thermo Fisher Scientific Electron Microscopy image contest for his “Cysteine Rose” image. The image was acquired using the FEI Helios NanoLab 650 DualBeam focused ion beam/scanning electron microscope (FIB/SEM) and selected by a vote of Thermo Fisher employees from more than 270 entries. Jacassi will receive a Canon EOS 80D DSLR camera package.

Thermo Fisher Scientific Inc.
www.thermofisher.com

JPK's NanoWizard® AFM Systems Are Used at the University of Sheffield to Understand Soft Matter and Biological Systems



JPK Instruments works with users at the University of Sheffield where their NanoWizard® AFM systems are used to further understand soft matter and biological systems at the molecular scale. As well as applying existing methods and instrumentation, the group have

the added challenge to develop new equipment and protocols to allow the study of different samples at higher magnifications applying new detection systems.

JPK Instruments AG
www.jpk.com

Princeton Instruments Announces Appointment of ROSH Electroptics as Exclusive Distributor in Israel

Princeton Instruments announced the appointment of ROSH Electroptics as their exclusive sales representative in Israel. Princeton Instruments has pioneered numerous imaging and spectroscopy products for physical, biological, and life sciences research. Renowned products include IsoPlane spectrometers, NIRvana short-wave IR (SWIR) InGaAs cameras, PI-MAX4 ICCD and emICCD cameras, eXcelon CCD technology, and LightField software. The recent launch of their FERGIE line of integrated spectrometers will transform the way researchers and OEMs do spectroscopy.

Princeton Instruments and ROSH Electroptics
www.princetoninstruments.com and www.roshelop.co.il

AXT Presence in Australia and NZ

AXT announced that they have been appointed exclusive Australian and New Zealand distributor for Oxford Nanoimaging. ONI is a UK-based company that has commercialized the "Nanoimager," a super-resolution fluorescence microscope capable of single-molecule imaging. The work of Oxford Nanoimaging has resulted in the Nanoimager, an elegant yet robust bespoke platform that both simplifies and increases the efficiency of fluorescence imaging, providing levels of detail not previously possible.

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

French Geologists Use Renishaw's Raman-in-SEM Solution to Probe the Nanoworld

Researchers at the French Geological Survey, BRGM, study the physical, chemical, and structural properties of minerals. They use a co-located SEM-Raman system from Renishaw to provide comprehensive *in situ* sample characterization. BRGM facilities include an SEM-Raman instrument consisting of a Renishaw inVia confocal Raman microscope coupled to a TESCAN Mira3 scanning electron microscope via Renishaw's Structural and Chemical Analyser (SCA) interface.

Renishaw plc
www.renishaw.com/Raman

Park Systems Announces Opening of European Headquarters in Heidelberg, Germany

Park Systems announced the opening of their European Headquarters in Heidelberg, Germany and appointment of Ludger Weisser as General Manager. Park Systems received "AA" from two separate rating agencies on advanced technologies, becoming the first company listed that year through the special technologies IPO program. Dr. Sang-il Park, CEO and founder of Park Systems, was an integral part of the group at Stanford University that first developed AFM technology.

Park Systems
www.parkafm.com

Van Andel Research Institute Installs World-Class Microscopes to Enable Discovery of the Molecular Basis Of Disease

Van Andel Research Institute (VARI) is now home to a suite of the world's most powerful microscopes. Cryo-electron microscopy is a revolutionary technique that reveals in unprecedented detail the molecular and atomic interactions at the foundation of life, allowing scientists to observe exactly how viruses enter cells, how DNA replicates, how chemical compounds assemble into functional biological components, and much more.

Van Andel Institute
www.vai.org

Prior Scientific Releases New Warranty

Prior Scientific announces that their new warranty for motorized stages is now five years from the date of purchase only when used with a Prior controller, for controllers three years old and for Prior Scientific's custom-built products, one year. Prior Scientific is the only company in the industry that offers this warranty. This reflects Prior Scientific's strong commitment to quality, precision, and excellence, which has been developed over decades of designing, prototyping, and manufacturing scientific instruments.

Prior Scientific Instruments Ltd
www.prior.com

Basler Reports Business Figures for 2016

Basler AG presented its audited annual report 2016. In line with its strategy, in fiscal year 2016, group's sales increased by 14% to € 97.5 million (previous year: € 85.4 million). Basler AG grew by approximately 10 percentage points stronger than the German industry for image processing components that is statistically recorded by the VDMA (Verband Deutscher Maschinen- und Anlagenbau, German Engineering Federation) and thus represents a key indicator for the global market development.

Basler AG
www.baslerweb.com