

## IndustryNews

### Oxford Instruments Installs its 1000th X-Max

Oxford Instruments NanoAnalysis has completed the installation of its 1000th X-Max. The X-Max was only introduced to the market a little over two years ago and remains the only detector in the world that offers an 80-mm<sup>2</sup> sensor area. The 1000th X-Max was installed at Atotech in Berlin, Germany, along with three other X-Max units. Oxford Instruments aims to use innovation to turn smart science into world-class products, and the X-Max is a classic example.

Oxford Instruments NanoAnalysis  
www.oxford-instruments.com

### Agar Scientific Announces the Availability of SMART Grids from Dune Sciences Inc.

Agar Scientific announces their appointment by Dune Sciences for the supply of SMART Grids™ to simplify nano and bioanalysis sample preparation. SMART Grids set new standards for accurate, reproducible, and simple sample preparation for TEM, SEM, and AFM. Applying surface chemistry, SMART Grids characterization substrates capture both biological and nanomaterials through attraction or self-assembly, enabling unprecedented opportunities for integrative analysis and processing.

Agar Scientific  
www.netdyalog.com/news/asci

### National Science Center of Greece Selects Nano-research Technology from Vistec

Vistec Lithography Inc. received a major order from Greece. The National Center for Scientific Research (NCSR Demokritos) has bought an EBPG5000plusES system for one of its associated Institutes. Installed at the Institute of Microelectronics (IMEL), the system will be the first 100 kV lithography system in Greece and will assure multidisciplinary cutting-edge nano-research. IMEL is one of Europe's leading Research Institutes in the field of silicon technologies that performs multidisciplinary research.

Vistec Lithography Inc.  
www.vistec-semi.com

### FEI and CEA-Leti Enter Joint Agreement to Characterize Advanced Semiconductor Materials

FEI and CEA-Leti announced the companies have entered into a three-year agreement to characterize advanced semiconductor materials for the 22-nm technology node and beyond. European-based CEA-Leti, with its two partners on the NanoCharacterization Platform of MINATEC Campus, CEA-Liten and CEA-INAC, will apply their expertise in holography and nanobeam diffraction. FEI will provide advanced nanobeam diffraction technology with its Titan™ S/TEM. The companies will measure strain changes in semiconductor structures.

FEI Company  
www.fei.com, www.leti.fr

### Zeiss EFTEM Chosen for New Center at Salk Institute

The Waitt Advanced Biophotonics Center at the Salk Institute for Biological Studies officially opened on February 9, 2011. The center, specializing in biophotonics, will rival the imaging capacity of most, if not all, academic research institutions of its size in the nation. The Libra 120 PLUS EFTEM system and the Biophotonics Core Facility will act as a test bed for future developments of correlative light and electron microscopy methods in collaboration with Carl Zeiss.

Carl Zeiss NTS  
www.zeiss.com/us/nts

### President Barack Obama Sees Atoms on FEI TEM



President Barack Obama finally got to see his atoms, courtesy of Intel and FEI's Titan transmission electron microscope. The president visited Intel Hillsboro's Ronler Acres facility as part of a West Coast technology tour. During his visit to the TEM lab, the president took a seat at the facility's Titan TEM. "I've gotta see some atoms, excuse me," he said while examining the images on the system's monitors. "Don't bump my atoms here."

FEI Company  
www.fei.com

### Thin-film Vacuum Deposition Cluster Tool Delivered to Naval Research Laboratory

Kurt J. Lesker Company recently shipped a multi-technique, production-grade cluster tool to the Naval Research Laboratory in Washington, DC. Various stations of the cluster tool operate in high and ultra-high vacuum and make use of advanced physical vapor deposition (PVD) processes, including magnetron sputtering, electron beam and thermal evaporation, and ion-assisted deposition for film modification. There is capability to add analytical tools for *in-situ* thin-film analysis.

Kurt J. Lesker Company  
www.lesker.com

### ETH Zurich Choose Vistec EBPG5200 for New Nanotechnology Center

Vistec Lithography, Inc. announced that it received an order from the ETH Zurich (Swiss Federal Institute of Technology) for one of its Vistec EBPG5200 systems. The Vistec EBPG5200 will be installed in the new Nanotechnology Center, which is a unique, public-private partnership between IBM Research-Zurich and ETH Zurich. ETH Zurich will focus on exploratory research aiming at nanotechnology applications such as MEMS/NEMS, nanowires, Carbon-based devices, functional materials, optical interconnects, photonics, and directed self-assembly.

Vistec Lithography Inc.  
www.vistec-semi.com

## Buehler Reduces Price by up to 45 Percent on ReVêl Diamond Abrasive Grinding Discs



Effective immediately, Buehler has lowered the price of its ReVêl (“reveal”) diamond abrasive grinding/polishing discs by up to 45 percent. Total savings may vary, as each global region and associated distributors set pricing independently. Buehler announced the new price structure as the first of several customer-focused activities celebrating its 75th Diamond Anniversary. ReVêl discs feature revolutionary diamond abrasive nanotechnology that creates a simultaneous material removal/polishing action.

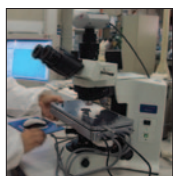
Buehler  
www.buehler.com

## XEI Scientific Announces Shipment of 1000th Evactron System

XEI Scientific Inc, maker of the popular EVACTRON® Plasma Cleaning System for electron microscopes and other vacuum chambers, announced today that with the final shipments of 2010, they have fulfilled orders bringing the total number of Evactron systems delivered to more than 1,000 units worldwide. Currently, XEI is introducing *in situ* technology for use in transmission electron microscopy by means of the TEM WandT.

XEI Scientific Inc  
www.evactron.com

## Linkam Controlled Shear Stage Chosen to Study the Effects of Temperature and Shear Flow in Isotactic Polypropylene at the University of Salerno



Linkam Scientific Instruments have been chosen by the University of Salerno as suppliers of a controlled shear system to study the effect of temperature and steady shear flow on the nucleation rate of spherulites in isotactic polypropylene. The CSS450 optical shearing system allows structural dynamics of complex fluids to be directly observed via a standard light microscope.

Linkam Scientific Instruments Limit  
http://www.linkam.co.uk

## Excelitas Technologies Announces Breakthrough Performance Results with its Solid State Silicon Photomultiplier (SiPM) Technology

Excelitas Technologies, which customizes optoelectronics to OEMs seeking high-performance technology solutions, announced today that it has achieved record, world-class performance results for high photon detection efficiency (PDE) and low dark counts in the development and commercialization of its solid state silicon photomultipliers (SiPMs) technology. SiPMs are an important element in Excelitas’s low light level detection (L<sup>3</sup>D) suite of technologies and products targeting the medical and analytical market space.

Excelitas Technologies  
www.excelitas.com

## Olympus to Sell Microscope and Imaging Products Directly in 14 Additional States; Leeds Precision Instruments to Focus on Forensics, Accessories, and Service

Olympus has announced that it has begun to sell its biomedical and industrial microscopes and imaging instruments directly throughout 14 additional states, including Arizona, Colorado, Idaho, Iowa, Minnesota, Montana, New Mexico, North Dakota, South Dakota, Texas, Utah, Wisconsin, Wyoming, and Michigan. Until now, these areas have been served by Minneapolis-based Leeds Precision Instruments, Inc., which has been a long-time Olympus dealer.

Olympus America Inc  
www.olympusamerica.com

## Allied Vision Technologies Posts Record Sales and Growth for 2010

In the past year, Allied Vision Technologies broke all its sales and growth records. The company generated \$58.8 million, about 58% more than in the previous year. New products together with the identification and exploitation of new markets contributed decisively to such growth. In so doing, Allied Vision Technologies successfully introduced two new camera families to the market in 2010: the Prosilica GX at the upper end and the high-volume model Manta.

Allied Vision Technologies GmbH  
www.alliedvisiontec.com

## The University of Nottingham Selects JPK’s Innovative ForceRobot System for Single-Molecule and Biopharmaceutical Applications

JPK Instruments report on the first work from the University of Nottingham who have chosen the ForceRobot® 300 system for their School of Pharmacy. The Laboratory of Biophysics and Surface Analysis (LBSA), a multidisciplinary research division within the School of Pharmacy at the University of Nottingham, is one of the world’s leading scanning probe microscopy groups, having published several hundred groundbreaking papers over the last twenty years.

JPK Instruments  
www.jpk.com

## Max Planck Institute and Asylum Research Organize 2nd International Workshop for Scanning Probe Microscopy for Energy Applications

The workshop, to be held June 8–10, 2011, at the Max Planck Institute for Polymer Research in Mainz, Germany, will focus on sharing innovative research involving characterization of microscopic mechanisms underpinning solar cell, battery, and fuel cell operations. The meeting will include invited/contributed talks and poster sessions, plus equipment labs featuring Asylum’s Cypher™ and MFP-3D™ SPM/AFMs. See [www.mpip-mainz.mpg.de/symposium/spm2011](http://www.mpip-mainz.mpg.de/symposium/spm2011) for information on agenda and registration.

Asylum Research  
www.asylumresearch.com