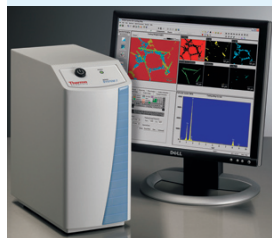


**Thermo Fisher Scientific Inc.** announces that HUNT Biobank has selected its **Thermo Scientific Nautilus LIMS™** to gather, store, manage, track and retrieve the biological data of approximately 100,000 people from Nord-Trøndelag County, Norway, as part of one of the largest population-based health studies ever performed. Initiated to support epidemiological, clinical and preventative medical research, HUNT Biobank studies provide insight into disease status and progression, particularly in relation to quality of life measures such as environment, education and occupation. Spanning almost 25 years, HUNT Biobank now represents an integrated family and personal database. For more information about Thermo Scientific Nautilus LIMS, please e-mail [marketing.informatics@thermofisher.com](mailto:marketing.informatics@thermofisher.com) or visit [www.thermo.com/informatics](http://www.thermo.com/informatics).

Thermo Fisher Scientific Inc. has unveiled the **Thermo Scientific NORAN System 7**, the most advanced EDS X-ray microanalysis system available. Equipped with a high throughput pulse processor, spectral imaging capability and a sophisticated software suite, NORAN System 7 is the fastest complete EDS X-ray microanalysis system available on the market. The new system produces accurate and dependable results in just a few seconds, accelerating the microanalysis capabilities of modern electron microscopy laboratories. The Thermo Scientific NORAN System 7 incorporates a powerful new analyzer designed to achieve fast and precise acquisition of data. The system automatically analyzes both the x-ray spectrum and images during data acquisition to obtain the correct identification of the material under analysis. This exclusive "analysis during the acquisition" technique produces



results more than ten times faster than other systems. This comprehensive system also features the latest in large area UltraDry silicon drift detectors for the detection of X-rays down to Beryllium. The high-resolution UltraDry detector ensures optimum collection efficiency and throughput. The Thermo Scientific NORAN System 7 software uses advanced peak shape fitting algorithms to accurately identify the elements in the sample while also enabling high-speed analysis and the production of high quality spectra. For more information about the new Thermo Scientific NORAN System 7 EDS X-ray microanalysis system, please visit booth #834 at Microscopy and Microanalysis 2008, Albuquerque, New Mexico, August 3-7. Alternatively, please call +1 800-532-4752, email [analyze@thermofisher.com](mailto:analyze@thermofisher.com) or visit [www.thermo.com/microanalysis](http://www.thermo.com/microanalysis).

**FEI Company** announced that it has selected **Shimadzu Corporation**, developer of analytical measuring and technology systems, as a sales agent in Japan. Shimadzu, located in Kyoto, Japan, will sell FEI systems, including Quanta™ and Inspect™ scanning electron microscopes (SEMs) and the Quanta 200 3D small-stage DualBeam™ focused ion beam/scanning electron microscopes (FIB/SEM), to its established base of customers in Japan. More information can be found at: [www.fei.com](http://www.fei.com).

**NanoImaging Services, Inc.** announces **NanoImaging Data Browser**, a new data delivery service that provides its customers quick, efficient and complete access to the massive data sets generated by image-based structural investigations. The ability to directly visualize supra-molecular structures has tremendous value in all phases of the drug development pipeline, and any improvement in analytical speed has the potential to accelerate the entire development process. For more information, visit [www.nanoimagingervices.com](http://www.nanoimagingervices.com).

**Leica Microsystems** introduces the **Leica FCM1000**, an imaging solution developed for real-time *in vivo* and *in situ* imaging of fluorescence in mice and rats. This fibered, micro-endoscope allows researchers to image deep brain events, peripheral nerves, and angiogenesis in a minimally invasive fashion with cellular resolution. The Leica FCM1000's microprobes are designed to access virtually anywhere inside the living animal. By simply contacting the tissue of interest, the user can generate high-speed record-

ings of cellular or vascular events. The flexibility and minute diameters of the Leica Fibered and Miniaturized (FM) Microprobes enable endoscopic access to the living animal, with minimal animal preparation.

The former **Bal-Tec AG**, based in Liechtenstein and now part of the **Leica Microsystems family**, is an important manufacturer of both mechanical and cryo sample preparation equipment for Scanning Electron Microscopy and Transmission Electron Microscopy. Products such as the EM VCT100 Vacuum Cryo Transfer system for SEM, which provides sample transfer from preparation equipment to analysis systems for EM, and the EM HPM100 High Pressure Freezing unit, are now available from Leica Microsystems. For more information contact Molly Baker, Leica Microsystems Inc. 847/405-0123, or visit [www.leica-microsystems.com](http://www.leica-microsystems.com).

**NanoAndMore USA, Inc.** the North and South American distribution arm of **NanoWorld Holding, AG**, today announced that it has signed a distribution agreement for the US market with **BioForce Nanosciences Holdings, Inc.**, a producer of integrated biological and mechanical systems for life science researchers at the micro and nano scales. NanoAndMore USA joins the sister company of NanoAndMore GmbH, already a distributor of BioForce Nanosciences' products., in distributing these leading edge products. [www.nanoandmore.com](http://www.nanoandmore.com)

**NANOSENSORS™** today announced the introduction of new Gold and Platinum coated variations of its well-known speciality probe type for Atomic Force Microscopy - the **AdvancedTEC™ SPM probe**. The Platinum Iridium and the gold coated AdvancedTEC™ AFM probes will be available in different force constants and resonant frequencies for contact mode, non-contact/tapping mode and force modulation mode measurements. These new variations extend the range of applications for the AdvancedTEC to Electrostatic Force Mode (EFM), Scanning ElectroChemical Microscopy (SECM), Scanning Capacitance Mode (SCM), Scanning Kelvin Probe Microscopy (SKPM) as well as to usage in combined imaging techniques such as: Atomic Force Microscopy (AFM) – Scanning Electron Microscopy (SEM) imaging, Infra Red – Scanning Nearfield Optical Microscopy (IR-SNOM) or Electrical Micro-Nanprober systems. For further information please visit the NANOSENSORS website at: [www.nanosensors.com](http://www.nanosensors.com)

Together with the Foundation for **Innovative New Diagnostics (FIND)**, **Carl Zeiss** has developed a special microscope to improve the diagnosis of tuberculosis. Compared to the traditional technique of diagnosing tuberculosis by Ziehl-Neelsen staining, diagnosis with the Primo Star iLED fluorescence microscope is four times faster with a ten percent improvement in sensitivity. The market launch of this new fluorescence microscope has been scheduled for October. The outstanding feature of the new microscope is its energy-saving LED illumination which is specially designed for use in the countries concerned. FIND and Carl Zeiss will sell the Primo Star iLED at a reduced price to 24 developing countries defined by the WTO World Trade Organization. For more information on the breadth of solutions offered by Carl Zeiss MicroImaging, please visit [www.zeiss.com/micro](http://www.zeiss.com/micro).



**Carl Zeiss SMT** has launched the **ParticleSCAN VP**, a newly developed work-flow solution for automated full-scale high-resolution particle analysis. The newly developed system in particular allows for the analysis of non-conductive samples based on proprietary Variable Pressure technology. The system is a further development of the high vacuum ParticleSCAN particle detection and analysis system introduced in 2007 and based on Carl Zeiss' field proven mobile Scanning Electron Microscope (SEM) platform. The highly automated system has been designed for frequently repeated analysis of material samples in industrial production and research environments. It is used in process control for the detection and monitoring of ultra-fine particles. Combined with an optional X-Ray analysis tool (EDS) the system can automatically record

the morphology of samples, i.e. measure, classify and record their size, shape and chemical composition. Thereby the system enables customers for highly efficient and automated process control, yield improvement and manufacturing capability. Provided with the dedicated SmartPI™ software, ParticleSCAN VP can be adapted to a broad spectrum of particulate analysis – from pharmaceutical powders to inclusions in metal alloys. The new Variable Pressure mode now also enables the rapid examination and analysis of non-conducting samples. You can find the complete text under <http://www.zeiss.de/C1256A770030BCE0/WebViewAlle/BF193D25EA-BA49E4C125746B004F7A4A>

**The McCrone Group Inc.** announced a significant expansion of “**The McCrone ATLAS of Microscopic Particles**,” a comprehensive online particle reference resource, and its associated website. “The McCrone ATLAS of Microscopic Particles,” is a comprehensive online particle reference resource available to Forensic Scientists, First Responders, Researchers, and Teachers on a subscription basis. McCrone’s ATLAS is designed as a reference tool to assist scientists in the identification of unknown particulate samples. This exclusive ATLAS is the first comprehensive web-based particle reference source for scientists, microscopists, and criminalists engaged in materials analysis and identification and for science educators to use in classroom learning. The ATLAS now includes 846 historical characterizations from THE PARTICLE ATLAS Edition Two - Volumes Two and Five. There are now over 1,000 particle characterizations on the site. During the next several years additional characterizations and updates will be posted on a regular basis. The new expanded ATLAS site provides excellent detail for particle identification and it now permits several subscription options and payment methods. Available at: [www.mccroneatlas.com](http://www.mccroneatlas.com), the ATLAS combines the knowledge of the world’s foremost particle analysts into one of the most wide-ranging reference tools ever developed for forensic scientists and others in the scientific community. For further information about The McCrone Group, please visit [www.mccrone.com](http://www.mccrone.com).

**Gatan, Inc.** successfully obtained **ISO9001:2000 certification**. This milestone corroborates Gatan’s long-lived commitment to improve the quality of our products and services to our customers. Since our inception, Gatan has and continues to set and implement measurable and definitive quality objectives throughout the company to advance our quality management system. Our ultimate goal is to become the benchmark of quality and service for imaging and analysis products in the electron microscopy industry. Website: [www.gatan.com](http://www.gatan.com)

**Wells R&D** Introduces the **OS200B Lens Test Bench, Classic Lens Test Bench** Plus Live Video And MTF Analysis Software. If you are evaluating performance of commercial lenses for use in larger systems, validating performance of custom lens prototypes, tracking the performance of incoming batches of lenses, or diagnosing imaging problems, then the OS200B from Wells Research and Development is the lens test bench system you need.

**Technical Manufacturing Corporation’s (TMC) new TableTop PZT™** is an active hard-mount vibration cancellation system that is ideal for small precision instruments, particularly those instruments in buildings where floor vibration is severe. Incorporating TMC’s patented STACIS® technology, the cost-effective TableTop PZT features a lightweight, compact design; extended stroke piezoelectric actuators; sub-Hz vibration cancellation, both vertical and horizontal; and it has no soft air suspension. The TableTop PZT has a payload capacity up to 300 lbs. Contact Steve Ryan Technical Manufacturing Corp., 978-532-6330, [sryan@techmfg.com](mailto:sryan@techmfg.com)

**Ted Pella, Inc.** introduces a new glow discharge system for cleaning and surface modification of TEM grids and support films. With increasingly demanding imaging applications, using clean or surface modified TEM grids and support films has become more important than ever. The new **PELCO easiGlow™** has been designed as an affordable, quick and easy to operate glow discharge system for any TEM lab. The PELCO easiGlow™ is a compact, standalone system that fits easily in a TEM lab.

The practical chamber size with its newly designed UC glow discharge head and adjustable stage with glass slide holder allows for easy loading and fast turnaround times. The system is fully microprocessor controlled and includes an intelligent touch screen device for operation and display of parameters. The PELCO easiGlow™ supports both hydrophilic and hydrophobic treatment for either a negative of positive charge and includes two separately controlled gas inlets. The required vacuum level is set by an electronically controlled precision proportional valve, eliminating manual setting with a needle valve. A soft venting procedure ensures that the TEM grids are not disturbed when the system is vented. For the most common glow discharge application, making TEM supports films hydrophilic using air, the PELCO easiGlow™ includes a automated and quick cycle with fully selectable parameters. This function is widely used for TEM preparation using aqueous solutions and for Cryo-TEM applications. The microprocessor controlled systems also offers full manual control for all parameters and an advanced protocol programming feature for custom glow discharge treatment applications. The PELCO easiGlow™ combines both true ease of operation for simple cleaning procedures and sophisticated control for advanced custom glow discharge applications. For those labs which needs both hydrophilic and hydrophobic surface treatment a dual glow discharge system is available to avoid cross contamination of the glow discharge chambers. [www.tedpella.com](http://www.tedpella.com)



**Ted Pella, Inc.** introduces the **next generation of Silicon Dioxide Support Films** for analytical electron microscopy. Utilizing advanced MEMS technologies with novel stress reducing techniques, smooth freestanding silicon dioxide membranes with unsurpassed flatness are now available. The film thickness of these flat membranes is 40nm, offering enhanced imaging capabilities for analytical TEM applications.

As a response to the increased demand for affordable high-quality AFM calibration standards, **BudgetSensors®**, a Bulgarian manufacturer of silicon and silicon nitride probes, as well as AFM accessories for Atomic Force Microscopes (AFM), announces the commercial introduction of **two different AFM height calibration standards – the HS-100MG and the HS-20MG**. Both height calibration standards feature silicon dioxide structure arrays on a 5x5mm silicon chip. The fabrication process guarantees excellent uniformity of the structures across the chip. This in turn ensures easy and reliable Z-axis calibration of any AFM system. Arrays of structures with different shape and pitch are integrated on each chip. Aside from Z-axis calibration, this design also allows X- and Y-axis calibration for bigger scanners (40-100µm range). The HS-100MG features structures with 100nm and the HS-20MG features structures with 20nm step height. For more detailed product specifications, please visit BudgetSensors® website [www.budgetsensors.com/calibration\\_standards.html](http://www.budgetsensors.com/calibration_standards.html).

**Biomedical Photometrics Inc.**, announces the launch of its latest generation of panoramic confocal fluorescence and brightfield **slide scanners, the TISSUEScope™ 4000** for the pathology, medical research, genomics and general microscopy markets. The latest instrument comes equipped with 4 solid state fibre-coupled lasers as standard, (405, 488, 532 and 639 nm). This enables it to acquire images from slides stained with fluorescence markers such as DAPI/Hoechst in the violet, all the way into the far red. The new TISSUEScope™ 4000 instrument comes with the latest version of the MACROview software including a streamlined user interface, which provides the instrument operator with a significantly more efficient workflow, substantially reducing image scanning set up time. With the addition of a 5” x 7” motorized stage the TISSUEScope™ 4000 offers researchers the flexibility to acquire a wide range of specimen sizes, all in stunning high resolution (0.5µm/pixel) detail. Biomedical Photometrics Inc. (519) 886 9013 ext 38 [www.confocal.com](http://www.confocal.com)