

The Kurt J. Lesker introduces its new line of TRUE Digital™ gauges, offering a compact and modular alternative to the error-prone world of analog pressure measurement. Just four gauges™ Piezo, Piezo/Pirani, Pirani and Pirani/Bayard-Alpert™ cover the entire pressure range from 1500 Torr to 7.5x10⁻⁹ Torr. The TRUE Digital™ nature of the gauges permits data to be read directly into a PLC or PC with no signal conversions being required. With a choice of two serial interfaces, RS232 or RS485, the digital data signals guarantee reliable data transmission using industry standard low cost cables. TRUE Digital™ gauges may be daisy-changed using RS485 cables for cost savings and cleaner looking installations. Profibus, DeviceNet, LON Works and CC converters are also available. Contact us at: 800-245-1656, www.lesker.com.

M.E. Taylor Engineering Inc. announces new production capabilities to manufacturer custom made carbon tape products. These include double sided adhesive circles, tabs, tapes, or any shape that can be die cut or slit. Newer carbon loaded materials available are almost 100% transparent to EDS for elements other than carbon. In addition, the ability to layer different material densities can produce multiple surface finishes. One side can be very smooth while the other side is a bit coarser on the surface leading to a cost effective product. Materials other than carbon are available. Our production facilities are local, so fast order turn around and quality control are assured. Call: 301-774-6246 or genetaylor@mac.com

Veeco Instruments Inc. has introduced the BioScope™ II, an innovative, high-performance atomic force microscope (AFM) designed to facilitate advanced bioscience research. Veeco's new BioScope II has the highest AFM resolution and lowest noise available on an inverted microscope on the market today and enables AFM imaging under a wide range of dynamic and biologically relevant conditions. The ergonomic, "open" physical design of the BioScope II affords safe, simple, top-down access to materials (i.e., samples and liquids) or probes without interfering with the optics. Low-noise, closed-loop probe positioning enables point-and-shoot, molecular pulling and force curves, and nanomanipulation. The BioScope II delivers greater than 15µm Z range for imaging large structures (e.g., cells), as well as greater than 150µm X-Y range for matching cell or sample size to scan area and correlating AFM data with optical/fluorescence images. True top-down optical access permits uncompromised use of phase contrast, DIC (Differential Interference Contrast) and brightfield optical microscopy. Setup is fast and easy, even for complex perfusion experiments. A soft-sealed environmental/perfusion chamber and sample heater allows sensitive biological samples to be maintained and imaged under physiological conditions by controlling the chemistry of the fluid and gaseous environment.

Laser Microdissection is a technique for isolating specific tissue samples, even down to single cells. This technology is currently active in the fields of cell biology, plant research, pathological diagnosis, and forensics analysis. Once a desired tissue region is identified by the user, with either brightfield or fluorescence illumination, the LMD isolates it from the original sample. The dissected sample is typically reserved for downstream analysis for the expression of molecules of interest, i.e. DNA, RNA, or proteins. Isolating only the cells of interest from the heterogeneous milieu of the original sample facilitates the characterization of the cells' unique complement of molecular signals. The Leica LMD6000, successor to the AS LMD, was released in October 2005. The system utilizes a 355 nm diode laser incorporated into a Leica DM6000 B research microscope to microdissect the cells of interest directly into a centrifuge tube cap containing a reaction buffer. Enhancements to the system include a faster and more powerful cutting laser, holder for three slides, and an optional fast high precision scanning stage. The availability of optional automated cell recognition software (AutoVision Control, AVC) extends the level of system throughput. The versatility of the LMD6000 allows the system to be used for other methods. The optional Living Cell Cutting module allows for

the isolation of individual cultured cells for either molecular analysis or the generation of sub-clonal populations. Alternatively, the laser can be used for cellular and intracellular ablation. Molly Lundberg, Leica Microsystems Inc. 847/405-0123 ews@leica-microsystems.com

INDUSTRY NEWS

CIS Corporation, a leading supplier of industrial-grade cameras, announced that for the first time in their history, the company exhibited at the 18th International Trade Fair for Machine Vision and Identification Technologies, VISION 2005, held at Messe Stuttgart, November 8-10, which gives us an opportunity for us to show the advantages of our new F and G camera product families. The G and F families are the first products which use the recently adopted AIA Camera LinkR "Mini-CL connector" packaged in a 29mm cube miniature camera. The G products are monochrome, while the F designates color. Both product families offer single-tap cameras with up to 6X scanning speed. This allows CIS to offer compact, high-performance Camera Link(R) products at prices traditionally associated with standard analog cameras. More information can be found on the website at www.ciscorp-us.com.

Three fully equipped state-of-the-art electron microscopes worth approximately \$2.5 million are being delivered to the Calit2 Building at UC Irvine as part of a strategic alliance between Carl Zeiss SMT, a global semiconductor and nanotechnology instrument manufacturer, and the California Institute for Telecommunications and Information Technology (Calit2) at the University of California, Irvine. <http://www.calit2.net/newsroom/release.php?id=753>

Thermo Electron Corporation introduced Retriever version 3.0, a web-based data extraction and presentation solution that enables secure access to laboratory data, no matter the originating data system. Retriever extracts aggregates and transforms data into "laboratory information with a business context," so that the data can be used to make rapid, informed business decisions. In version 3.0, reports, which can include textual, graphical and tabular data, are configured using the new Thermo Report Designer. Thermo Electron Corporation has developed a new datasheet on the Atlas CDS, available free in pdf or printed format. Entitled "Atlas CDS - A scalable, compliant and integrated chromatography data system", this new document is available free of charge to chromatographers working in both regulated and non-regulated industries to address the benefits of standardizing on a single solution. Thermo's new datasheet provides information designed for multi-channel, multi-user client server implementations. To obtain a free-of-charge copy of the new datasheet simply download it in pdf format from www.thermo.com/cds or order a copy via marketing.informatics@thermo.com

Thermo Electron Corporation announces the introduction of its new Carousel Autosampler accessory, designed for use with the Nicolet Almega XR dispersive Raman microscope and NXR FT-Raman spectrometers. This versatile accessory automates the collection of Raman spectra from multiple samples and is designed principally for routine analysis environments such as QA/QC laboratories. The motorized carousel rotates up to 16 industry-standard sampling tubes into position in the excitation laser beam for unattended sampling. The Carousel Autosampler accommodates 5, 10 and 13 mm diameter tubes.



Thermo Electron Corporation announces the commercial availability of Darwin LIMS, the latest evolution in commercial-off-the-shelf (COTS) laboratory information management systems for pharmaceutical manufacturing R&D and QA/QC. Darwin fulfills many customer requirements "out-of-the-box" by providing deeper, more targeted pharmaceutical