

NEW PRODUCT NEWS

LEO Electron Microscopy is pleased to announce the first fruit of the new combined company - a technologically advanced variable pressure scanning electron microscope, the LEO 435VP scanning electron microscope.

The LEO 435VP utilizes differential pumping which allows the specimen chamber pressure to be controlled at whatever value is sufficient to neutralize charging. This allows one to examine almost any type of specimen with little or no preparation - even with complete insulators such as glass or ceramic.

This new variable pressure SEM operates just as simply as a conventional SEM. All LEO 400 Series SEMs operate in a Microsoft® Windows™ graphical environment so operation is intuitive and easy, and all results can be stored, printed or transferred to remote sites.

To arrange for a demonstration, contact LEO Electron Microscopy Inc. at telephone: (800)356-1090. Circle Reader Inquiry #12

Finally an inexpensive digital camera with 35mm film resolution. The MicroLumina captures color images 36 bits deep at up to 2700 x 3380 pixels making it an excellent instrument for micro and macro photography and image duplication. PC and Macintosh software available. Call ELECTRO-IMAGE, INC. at (516)773-4305. Circle Reader Inquiry #20.

Hitachi S-4200 FE SEM Features High Resolution At Low Voltages And Longer Distances

Offering high performance at extremely low operating voltages, the S-4200 field emission (FE) SEM from Hitachi Ltd. is well suited to both scientific and industrial applications, and is particularly valuable for new-materials study.

The S-4200 features a new conical objective lens that, in addition to reducing spherical and chromatic aberrations, boosts signal-to-noise ratio. Consequently, the system delivers a guaranteed 5-nm resolution at only 1 KV. Further, the high resolution of the S-4200 is available at longer working distances which, in conventional SEMs, significantly reduce image quality.

Incorporating a new high take-off angle EDX port, the S-4200 also features fully electronic alignment of its aperture and column, plus optional computerized stage control - with all settings maintainable in the system's memory. These and other automation features contribute to the instrument's highly simplified operation.

Nissei Sangyo America: (415)969-1100, fax: (415)961-0368. Circle Reader Inquiry #23



Digital Instruments announces a powerful extension to its patented TappingMode™ Atomic Force Microscopy (AFM) technique that provides nanometer-scale information about surface structure often not revealed by other scanning probe microscopy techniques. By mapping the phase of the cantilever oscillation during the Tapping Mode scan, phase imaging goes beyond simple topographical mapping by detecting variations in composition, adhesion, friction, viscoelasticity, and other properties.

Applications include identification of contaminants, mapping of different components in composite materials, and differentiating regions of high and low surface adhesion. In many cases phase imaging complements lateral force microscopy (LFM) and force modulation techniques, providing additional information more rapidly and with higher resolution. For more information, contact Digital Instruments at (805)899-3380. Circle Reader Inquiry #24

USED EQUIPMENT WANTED

Dynaphot Scanning Photomacrographic System (Irvine Optical Corp.) with or without camera and/or microscope. Doug Stokke: Tel.: (618)457-8387, eMail: dstokke@siu.edu

Need HV tank and cable for Hitachi HU 11F. Peter Jordan: (909)694-1839

Microscopy and Surface Analysis Manufacturers and Suppliers on the WWW

The following is an update to the list in the last issue of this publication - and will be further updated in the future.

- Beckman Instruments: <http://www.beckman.com>
- Brucker Instruments, Inc.: <http://www.bruker.com>
- Carl Zeiss: <http://www.ctan.yale.edu/HTML/YALE/CTAN/zeisspg.html>
- Digital Instruments: <http://www.di.com>
- Eastman Kodak: <http://www.kodak.com>
- Fisons Instruments: <http://www.fisonssurf.co.uk>
- Gatan Inc.: <http://www.gatan.com>
- Hitachi Instruments: <http://www.hii.hitachi.com>
- JEOL USA: <http://www.jeol.com>
- Kratos Analytical: <http://www.kratos.com>
- Nissie-Sangyo Candad: <http://www.nscutoronto.com/nissei-sangyo>
- Philips Electronic Instruments: <http://www.peo.philips.com>
- Philips Electron Optics: <http://www.wise.nl/peo>
- SPI Supplies: <http://mail.ccbi.chester.pa.us/spi/spihome.html>
- Topomertix Corporation: <http://www.topomertix.com>
- Vacuum Generators: <http://WWW.surface.fisons.co.uk/vacgen/vghome.html>
- Virtual Laboratories: <http://www.rt66.com/~virtlabs/>

EMPLOYMENT OPPORTUNITIES

Growing California pharmaceutical company seeking a scientist with experience identifying and solving particulate problems in parenteral formulations of proteins/peptides with in-depth knowledge of established techniques. Will also conduct stability studies on selected formulations. Growth opportunity. Competitive compensation package. Desirable location. Contact Mark Hoffman: Tel.: (510)658-1405, Fax: (510)658-1428.

SALES ENGINEER - MICROSCOPY: We are the innovators of high resolution direct view 3D microscopy. We need application experts for a sales position covering NE States, preferably based in Boston. Successful candidates will be graduates in science, experienced in microscopy and laboratory techniques. They will be responsible for technical sales and marketing of our products to mainly research organizations in this territory. Send applications with CV to: Microscopy Today, File 101, PO Box 122, Middleton, WI 53562

USED EQUIPMENT FOR SALE

- JEOL 100C with Kevex 7000 spectrometer: \$4,500. Donation to qualified school possible. (601)264-9760
- Denton DV-502 High Vacuum Evaporator for metal and carbon coating. Excellent condition. Tony Owens, CamScan USA: (412)772-7433
- Demo equipment: Dye-sublimation printers (8.5"x11" copy) - 3 available. Also 3-chip CCD color video cameras (750 lines of resolution). One color digital high resolution camera. Excellent prices. Electrolmage: (515)773-4306.
- Philips 300. Contact Peter Jordan: (909)694-1839.

Readers: As we attempt to continue to improve this publication, our problem remains good articles and material. Your help would be much appreciated.
- - - Don Grimes, Editor