

## NEW AND/OR INTERESTING IN MICROSCOPY - PITTCOON '92

We attempted to visit each booth at PITTCOON '92 with products, etc. relating to microscopy and submit the following summary of what we found to be either "new" and/or "interesting":

- o Academic Press (619)231-0926: Assortment of books and journals including The Handbook of Infrared and Raman Characteristic Frequencies and Introduction to Infrared and Raman Spectroscopy.
- o Amray Inc (617)275-1400: Announces POWER WINDOWS - a 486 computer based PC integration package for the 1800 Series SEMs. The Windows-based user interface allows a powerful data management system with the ultimate in ease of use.
- o Analytical Reference Materials (800)421-9454: Multi/single pure certified reference materials mounted in an electrically conductive pure carbon substrate.
- o Axiom Analytical (714)757-9300: FT-IR sample interfacing equipment, accessories and systems for analysis of liquids, gases, pastes, films, coatings, bulk solids and powders.
- o Belov Technology (908)246-4840: New 3-5 micron IR microspectroscopy detector features 2-stage thermoelectric cooling and very sensitivity.
- o Bio-Rad/Digilab Div (617)868-4330: New UMA 500 and UMA250 infrared microscopes for the microspectroscopy of small particles or defects.
- o Bio-Lab/Microscience Div (617)864-5820: The MRC-600 Confocal Microscope - available with a choice of lasers, including the new ultraviolet laser.
- o Bruker Insts (508)667-9580: RAMANSCOPE - FT Raman microscope as a new accessory for the RFS 100 near-infrared stand-alone FT-Raman spectrometer. SOLIDSCOPE - New NMR microscope for non-invasive imaging of rigid solids which previously could not be imaged microscopically using NMR. MICROFOCUS - New laser microanalysis accessory with 5 micrometer spatial resolution for the APEX external ion source Fourier transform mass spectrometer.
- o Cameca Insts (203)348-5252: SEMPROBE - an automated analytical scanning electron microscope. NANOSCAN 100 - Field emission Auger microprobe. SX-50 - electron probe X-ray microanalyzer with all digital electronics.
- o Chromex (505)344-6270: A new Raman spectrometer, the RAMAN ONE, with Raman microscopy capability.
- o Cincinnati Electronics (513)573-6100: IR cameras and detectors; 2-D focal plane arrays; line arrays and single elements. FTIR mini cryocoolers without liquid nitrogen.
- o Connecticut Insts (203)831-0444: Micro sampling accessories and microscopes for microspectroscopy.
- o Compix Imaging Systems (412)772-5277: C-imaging systems: 1024x1024 Res and 624x624 Res with 24 bit color/monochrome input.
- o CRC Press (407)994-0555: Best-selling titles in general and analytical chemistry including latest edition of the Handbook of Chemistry and Physics.
- o Dapple Systems (408)733-3283: New MICRO series of energy dispersive X-ray microanalysis systems, including multichannel analyzer and operating software, for use with PC/AT or Macintosh II computers.
- o Denton Vacuum (609)424-1012: The newly announced Hi-Res 100 chromium deposition system which is capable of producing quality, ultrathin (10 angstrom) Cr coatings to meet the demands for high resolution imaging in today's FESEMs
- o Digital Insts (805)968-8116: SPMs (STM & AFM) with a variety of interchangeable scan heads and scanners.
- o Edax Internat'l (201)529-4880: New DOS-based EDS system with 486 microprocessor operating in windows environment - 1.2 Gbyte drive, SCSI compatible.
- o EG&G/PAR (609)452-2111: New Raman microspectroscopy imaging and analysis system with high performance CCD images - with emphasis on high dynamic range and low dark current.
- o EG&G/Reticon (408)738-4266: New scanning tunnelling microscope system.
- o Elsevier Science Publications (212)989-5800: New and well known journals including Trends in Analytical Chemistry and Laboratory Information Management.
- o ETP-USA (510)449-8534: New Robinson Detector for low accelerating voltage BSE imaging - 3.0 nm spatial res, 0.1 atomic number discrimination, TV imaging and more.
- o Fisons (415)962-8780: Low cost, easy to use, surface analysis ESCA system. Ideal for QA and process control applications.
- o Fisons (415)591-3600: EDS X-ray detector without liquid nitrogen - better than 150 eV resolution and guaranteed light element sensitivity down to carbon.
- o Galileo Electro-Optics (508)347-9191: New MCP based SEM detector - mounts on pole piece, provides excellent imaging at very low beam current and accelerating voltage.
- o Hamamatsu (908)231-1218: Compact photosensor modules allowing all advantages of a PMT based detector with little design effort.
- o Hitachi Scientific Inst (415)969-1100: New, low cost Model S-225N ESEM - with touch of button, change from HP ESEM to LP, high resolution mode.
- o HNU Systems (617)964-6690: The new DRV-2000 PC-Based Image Acquisition System will simultaneously capture images from up to six sources (SEM, STEM, EDS & WDS) in a single scan.
- o Instruments SA (908)494-8660: SOLO, a single monochromator Raman package, including holographic notch filter, that can be supplied with either an all-reflecting sample chamber or a confocal Raman microprobe.
- o Janos Technology (802)365-7714: New, free and comprehensive brochures on a range of 40 fluorescence filter packs supporting major microscopes, analytical filters in 25mm diameter anodized aluminum mounts and bandpass filters in 25mm diameter anodized aluminum mounts.
- o Jasco Inc (410)822-7526: New FT-IR spectrometer interfaced with microscope for combined sample imaging and infrared spectroscopic chemical analysis.
- o Jeol USA (508)535-5900: A new high resolution, fully computer controlled digital SEM with column automation, stage control and image archiving.
- o John Wiley & Sons (212)850-6000: Professional journals including Analytical Raman Spectroscopy and Important Peak Index of the Registry of Mass Spectral Data.
- o Kaiser Optical Systems (313)665-8083: Complete line of holographic optical products for laser spectroscopy and microscopy.
- o KVB/Analect (714)587-2300: MICRO-XAD PLUS is a new, dual-mode transmission/reflectance FT-IR microscope featuring prealigned visual and IR fields, high reflectance confocal optics and field division beamsplitting.
- o Leica Inc (708)450-0123: Quantimet 500 imaging workstation with Windows software interface and dedicated sampling hardware - beginner or expert operating modes. Fully software controlled SEM with live, real-time 3-D imaging, compatibility with desktop publishing, TIFF output images, etc.

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- o Linc Quantum Analytics (800) 992-4199: Offering the largest resource for the rental of analytical instruments in the U.S.
- o Mattson Inst (608)831-5515: Full family of FTIR spectrometers and accessories for infrared spectroscopy and advanced spectral analysis software - including PLS quant, curve fitting and fourier deconvolution routines.
- o Microspec Corp (510)656-8820: WDX-3PC wavelength dispersive X-ray spectrometer allows unequalled micro-analytical power with elements from boron to uranium - in areas as small as 1 cubic micrometer.
- o Midac Corp (714)645-4096: Low cost FT-IR spectrometer adaptable to existing infrared microscopes for microspectroscopy applications.
- o MTEC Photoacoustics (515)292-7974: New microanalysis accessory produces FTIR spectra of single particles and fibers. The sample mounting approach allows sample imaging with standard laboratory microscopes.
- o Nicolet Insts (608)271-3333: New microspectroscopy system featuring VIEWTHRU, allowing simultaneous masking, imaging and analysis of specific imaged areas.
- o Olympus Corp (800)446-5967: New Laser scanning confocal microscope. New stereo zoom line of inverted microscopes including the PMG-3 Inverted Metallographic Microscope and BHS-IR Infrared Microscope.
- o Omnichrome Corp (714)627-1594: Lasers and electro-optical systems for microscopy and spectroscopy applications - including HeCd lasers for microscopy, with wavelengths ranging from 32.5 to 648 nm.
- o On-Site Inst (614)237-3022: Sells, rents, leases and services a complete line of equipment.
- o Optical Technology Devices (914) 592-1900: A new, dual excitation and dual emission system for fluorescence microscopy.
- o Opticon (508)663-6105: Conventionally polished reflective microscope objective with long working distance - mag of 15X and 36X.
- o Optronics Engineering (805)968-3568: New LX450 camera featuring auto exposure, RGB, 4/C, composite video capable of fluorescence and dark-field microscopy - compatible with any C-mount microscope including Nikon, Zeiss, Olympus, etc.
- o Photometrics (602)889-9933: New CCD 9000 spectroscopic detection system with enhanced software, new windows-based image acquisition and manipulation software - for PC-AT series computers.
- o Pike Technologies (608)274-2721: Line of high performance FTIR accessories and a custom design and consulting service.

- o Plenum Publishing (212)620-8000: Variety of texts/references relating to microscopy including Cathodoluminescence Microscopy of Inorganic Solids and Low Temperature Microscopy and Analysis.
- o Princeton Insts (609)587-9797: New, affordable CCD cameras with a 16-bit dynamic range.
- o Prentice Hall (201)592-2000: Publications covering analytical, industrial organic, inorganic, physical and general chemistry - plus biochemistry.
- o Quantum Analytics (415)570-5656: A wide range of new analytical instruments for rental - including IR and UV-VIS spectrometers.
- o SLM Aminco (217)384-7730: Fluorescence imaging systems combining SLM optics with Universal Imaging Corp software - allowing intracellular ion measurements with combined images and spectra.
- o Spectral Systems (914)591-5055: Ultra-pure, state-of-the-art optical components for spectroscopy and microscopy.
- o Spex Industries (908)549-7144: Announcing the RAMAN-500, a single monochromator Raman package, including the holographic notch filter, that can be supplied with either an all-reflecting sample chamber or a confocal Raman microprobe.
- o SPI Supplies (800)242-4774: New, solid state, Plasma-Prep III offers a reliable, inexpensive, bench-top size plasma etcher - to ETCH, CLEAN or ASH using dry plasma chemistry with barrel-reactor isotopic etching. Ideal to reveal hidden detail for SEM and TEM and for removing organics from inorganic areas of samples.
- o Topcon Technologies (510)462-2212: Fully integrated ART-32 SEM/PGT IMIX EDX system - with all SEM & EDX functions controlled from a single keyboard.
- o Topometrix (408)982-9700: New interchangeable stages for the TMX 2000 AFM - MULTIVIEW AFM Laser Sensor, Large Sample AFM and Table Top AFM. All AFM stages can operate in Topography, Spectroscopy or Lateral Force Modes and include integrated optical viewing.
- o VCH Publishers (212)683-8333: Publishing a wide range of analytical books/journals including The Handbook of Polymer and Plastics Analysis and Computer Applications in Chemistry.
- o Carl Zeiss (914)747-1800: The DSM 962, a new fully digital SEM. A new, Confocal Laser Scan Microscope with 3D optical sectioning for biomedical, material and polymer sciences - and semiconductor testing including OBIC, topography and IR imaging.

## LIFE'S LITTLE INSTRUCTION BOOK

Excerpts from the book with the above title: "511 suggestions, observations, and reminders on how to live a happy and rewarding life." Published by Rutledge Hill Press, Nashville, TN.

- #13 Learn to make great chili.
- #19 Buy great books even though you never read them.
- #21 Learn three clean jokes.
- #24 Drink champagne for no reason at all.
- #26 If in a fight, hit first and hit hard.
- #30 Never buy a house without a fireplace.
- #32 Once in your life own a convertible.
- #56 Never mention being on a diet.
- #68 Be brave. Even if you're not, pretend to be. No one can tell the difference.
- #74 Eat prunes.
- #82 Steer clear of restaurants with strolling musicians.
- #85 Never encourage anyone to become a lawyer.
- #172 Be suspicious of all politicians.
- #211 Take your dog to obedience school. You will both learn a lot.
- #219 Never go grocery shopping when you are hungry. You'll buy too much.
- #223 Avoid any church that has cushions on the pews and is considering building a gymnasium.
- #242 Be cautious about lending money to friends. You might lose both.
- #249 Hire people smarter than you.
- #252 Be modest. A lot was accomplished before you were born.
- #257 Never ask a lawyer or accountant for business advise. They are trained to find problems, not solutions.
- #271 When facing a difficult task, act as though it is impossible to fail. If you're going after Moby Dick, take along the tartar sauce.
- #273 Remember that overnight success usually takes about fifteen years.
- #311 Don't waste time playing cards.
- #401 Don't ever watch hot dogs or sausage being made.
- #420 Get your priorities straight. No one ever said on his death bed, "Gee, if I'd only spent more time at the office."
- #433 Have a friend that owns a truck.
- #472 Enjoy real maple syrup.
- #511 Call your mother.