

## RESOURCES

A summary of new products and services  
for materials research...

### Light Measurement Instruments:

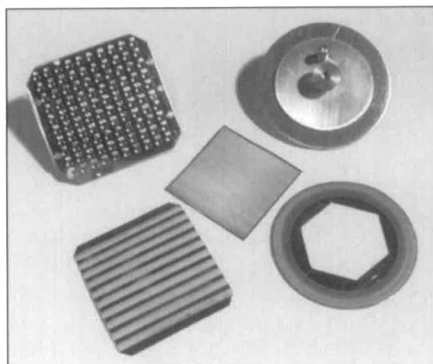
Free 36-page catalog from International Light lists light measurement instruments, detectors, and accessories. An application section features manufacturing and quality control uses for light measurement, including photostability testing, UV-curing and UV health hazard testing, LED and flash measurement, and photodynamic therapy. **Circle No. 67 on Reader Service Card.**

**Modular Microscope System:** Leica offers a free 33-page brochure on its DML modular microscope system, components, stands, and accessories. Included are illumination systems for transmitted, incident, and polarized light; observation and photo tubes; and photomicrography, video, and photometry accessories. A matrix of basic stands shows different configuration possibilities to aid in customizing a microscope. **Circle No. 68 on Reader Service Card.**

**Computer-Based and AV Training Programs:** Free catalog from SAVANT Audiovisuals highlights computer-based training programs in chromatography and spectroscopy. Techniques covered include atomic absorption, inductively coupled plasma, gas chromatography, high-performance liquid chromatography, GC/MS, capillary electrophoresis, mass spectrometry, and spectral interpretation. Video and slide/tape programs also are listed in the catalog. **Circle No. 65 on Reader Service Card.**

**Intensified CCD Camera:** The ICCD-MAX from Roper Scientific is suitable for low-light-level time-resolved experiments. The camera provides good temporal resolution, with gate widths  $<2$  ns. MCP bracket pulsing achieves on/off ratios  $>10^7:1$ , even in the UV. Features include a built-in pulser to eliminate the need for an external high-voltage supply and a custom  $f/1.2$  catadioptric lens for high collection efficiency in low-light UV applications. **Circle No. 71 on Reader Service Card.**

**Precious Metals Refinery:** WIT Sales and Refining can recover and refine metals to 0.9995 purity from hard materials or solutions such as cyanide, iodine, sulfite, and drag-out. Specialized operations include metal recovery from and the cleaning of vacuum/vapor deposition fixtures. Settlements can be disbursed in various forms, including electrolytic splatter pour or Technic, Inc. fabricated products. Reclamation and disposal of base metals such as Cu, Al, and Sn/Pb are offered. **Circle No. 61 on Reader Service Card.**



**Pre-Coated Foils:** Lab Connections offers two more matrixes in its pre-coated 1-TIME™ matrix foils for MALDI/MS for analysis of samples of high molecular weight. The first of the stainless steel foils is precoated with retinoic acid doped with  $Ag^+$  and can be used for most synthetic polymer samples. The second new foil is coated with ferulic acid for analysis of high molecular weight proteins. The foils attach to the target with a conductive adhesive backing and are available in various configurations. **Circle No. 69 on Reader Service Card.**

**Bonding Technology:** Materials Resources International has developed S-Bond™ for joining carbon and carbon:silicon carbide composites to metals such as aluminum and copper for applications less than 400°F (~202.4°C). The technology wets the components and produces an atomic bond to the constituent materials in the C:C and the C:SiC and also bonds across metal or composite interfaces. Bond strengths of more than 6000 psi are achieved. The bond does not degrade from cyclic duty or temperature extremes of -50 to 150°C. **Circle No. 63 on Reader Service Card.**

**Gel-Filled Capillary Electrophoresis Kit:** J&W Scientific offers the  $\mu$ PAGE™-10 gel-filled CE kit for high-resolution separation of antisense therapeutic agents and oligonucleotides analysis. The kit includes three  $\mu$ PAGE™-10 gel-filled CE columns,  $\mu$ PAGE™-10 buffer, and a test mixture. Replacement  $\mu$ PAGE™-10 gel-filled CE columns and  $\mu$ PAGE™-10 buffers can be purchased separately. The columns are made of 10% linear acrylamide and are available in 0.100 mm ID  $\times$  75 cm (50 cm effective length). **Circle No. 70 on Reader Service Card.**

### Automated Differential Scanning Calorimeter:

The DSC-60A from Shimadzu Scientific Instruments features an integrated 24-place autosampler and built-in  $LN_2$  cooling reservoir. The temperature range is -130 to 600°C, with a variably selected heating and cooling rate of 0.1 to 99.9°C per minute or per hour. Use of  $LN_2$  as the coolant enables cool down from 600 to 40°C in less than 6 minutes. The system provides a selection of purge, drying, and cleaning functions, including a detector cleaning sequence. **Circle No. 64 on Reader Service Card.**

### Diode-Pumped Ti:Sapphire Amplifier System:

The Hurricane™ from Spectra-Physics is an all-diode-pumped Ti:sapphire amplifier system in one box. The integrated system produces  $<130$  fs pulses with  $>0.8$  mJ output at 1 kHz repetition rates and a standard wavelength of 800 nm. The system combines Mai Tai™ technology for the seed laser, an Evolution™ laser as the pump for the Ti:sapphire regenerative amplifier, and pulse stretcher and compressor modules. **Circle No. 62 on Reader Service Card.**

**Solvents Handbook:** Plastics Design Library offers a 963-page handbook on industrial solvents. More than 1,200 tables of basic data on the physical properties of most solvents are included, as well as the solubilities of materials in those solvents and phase diagrams for multicomponent systems. Covered are hydrocarbon solvents, halogenated hydrocarbons, nitro paraffins, organic sulfur compounds, monohydric and polyhydric alcohols, phenols, aldehydes, ethers and glycol ethers, ketones, acids, amines, esters, and HPLC and UV data. **Circle No. 60 on Reader Service Card.**

### Optical Fiber Environmental Test System:

McPherson offers an integrated system that enables users to study wavelength-dependent propagation effects in optical fibers. The test chamber permits fixturing to measure bend radius losses and transmittance at temperatures from -50 to 100°C. The detector rotates by  $\pm 90^\circ$  relative to the fiber core for measurement of changes in numerical aperture, as well as related chromic, refractive, and thermal properties. Fibers 15 mm in diameter or smaller can be accepted. **Circle No. 66 on Reader Service Card.**

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