

**DNA analysis.** The next-generation Helix system for determining variations in a DNA sequence is designed specifically as a complete packaged solution for biomolecular applications, such as small-scale genotyping, DNA sizing, and oligonucleotide purification. The system's design is based on a denaturing HPLC platform and includes unique classification software and precise temperature control. **Varian**



## INSTRUMENTATION

**Metals.** The Belec Compact Port optical emission portable spectrometer can perform on-site alloy identification and elemental analysis and can readily measure trace elements in seconds, including carbon, phosphorus, and sulfur. The spectrometer also can be configured to analyze many base metals, including iron, copper, aluminum, nickel, titanium, cobalt, and lead. **Cianflone**

**Integrated FT-IR.** The IR100 FT-IR spectrometer system is extremely compact, reasonably priced, and ideal for teaching and routine testing. A separate computer system is unnecessary, saving money and lab space. Its major components are user-replaceable, which reduces the costs of long-term operation and support. **Thermo Mattson**

**Balances.** The enhanced-capacity/readability models of the Explorer and Voyager balance lines are designed for laboratories, industry, education, and specialty markets. By adding the 610 g  $\times$  1 mg and 6100 mg  $\times$  10 mg models, the line has expanded the weighing capability ranges at the 1-mg and 10-mg readability levels, respectively. These enhancements accommodate large container and tare weights and relieve lower capacity restrictions. **Ohaus**

**Spectral imaging.** PARISS is a wavelength-dispersive spectral imaging instrument based on a prism and reflector imaging spectrometer system. It can be used with a variety of heterogeneous

samples, including cells or any material that presents a complex, spatially resolved mixture of constituents. The instrument acquires all information simultaneously, detecting subtle shifts in wavelength that can indicate changes in molecular composition or conformation. **LightForm**

## CHEMICALS

**Drug monitoring.** New reagents for therapeutic drug monitoring and drug abuse monitoring are available in bar-coded packaging. They feature 60-day to 90-day onboard stability, with 14-day calibration stability on Olympus's line of automated immunochemistry analyzers. **Olympus America**

## LITERATURE

**GC/MS.** Application note 258 explains the use of automated accurate mass fragment assignments to confirm library search hits during the GC/MS analysis of complex mixtures. In the past, some mixtures would show similar spectra, and common library search algorithms

could not always provide an unambiguous identity. New software, however, can automatically fragment a chemical structure and help reject incorrect library hit candidates. **Micromass**

**Sugars.** Publication note 5988-4236EN, entitled "Application of Liquid Chromatography/Mass Spectrometry to the Analysis of Sugars and Sugar-Alcohols in Common Beverages", describes using the Agilent 1100 liquid chromatograph/mass spectrometer to measure sugars, compound sugars, and sugar-alcohols without derivatization. Together with atmospheric pressure chemical ionization in negative-ion mode, the instrument can measure compounds such as glucose, sorbitol, fructose, sucrose, and xylitol in standards and beverages. **Agilent**

## CATALOG

**Biological reagents and accessories.** *New Products 2001* catalog lists a large line of biological reagents and accessories, including bioactive peptides; enzyme substrates; resins; amino acid cartridges; amino acids; and catalog antibodies for apoptosis, cancer research, signal transduction, and secondary antibodies. The company website has a searchable e-library of more than 17,000 peptides. **AnaSpec**

**Specialty gases.** The "Specialty Gas and Equipment Reference Guide" is a 320-page volume that presents technical and safety information as well as lines of specialty gases and liquids for many scientific, industrial, and regulatory compliance applications. **Scott Specialty Gases**

|                              |                     |                              |
|------------------------------|---------------------|------------------------------|
| <b>Agilent</b>               | <b>800-227-9770</b> | <b>www.agilent.com</b>       |
| <b>AnaSpec</b>               | <b>800-452-5530</b> | <b>www.anaspec.com</b>       |
| <b>Cianflone</b>             | <b>800-569-9400</b> | <b>www.cianflone.com</b>     |
| <b>LightForm</b>             | <b>908-281-9098</b> | <b>www.lightforminc.com</b>  |
| <b>Micromass</b>             | <b>978-524-8200</b> | <b>www.micromass.co.uk</b>   |
| <b>Ohaus</b>                 | <b>800-672-7722</b> | <b>www.ohaus.com</b>         |
| <b>Olympus America</b>       | <b>631-844-5000</b> | <b>www.olympus.com</b>       |
| <b>Scott Specialty Gases</b> | <b>215-766-8861</b> | <b>www.scottgas.com</b>      |
| <b>Thermo Mattson</b>        | <b>608-276-6100</b> | <b>www.thermomattson.com</b> |
| <b>Varian</b>                | <b>650-213-8000</b> | <b>www.varianinc.com</b>     |