

## Compact Research Laser

The QLX1000 Fiber Optic Laser Light Source is a compact laboratory instrument designed for applications at 1300 and 1550 nm. It features extended digital modulation capability to greater than 1 Gbit/sec (700 MHz, analog) with power stability better



than 1% per hour. An optional companion receiver can accept data at rates up to 700 Gbit/sec (350 MHz, analog). The laser's components incorporate laser-welded fiber pigtailed, ensuring stable output over time and over temperature extremes. Lasertron. Circle 585.

## Multifrequency Phase, Modulation Fluorometer

The GREG-200 operates both as a conventional steady-state analog fluorometer and as a multifrequency phase and modulation fluorometer for time-resolved fluorescence. It can measure lifetimes of a few picoseconds to milliseconds. A dedicated personal computer resolves complex decay processes; a multiexponential decay can be easily solved, and even a nonexponential

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

decay can be analyzed. Determinations of differential phase and modulation ratio are simultaneously used to determine the rotational behavior of fluorescent molecules. Rotational movements of isotropic, anisotropic, and restricted rotators may also be analyzed. Phase- and modulation-resolved spectra allow the separation of spectral components from a mixture of several emitting species with overlapping bands. Time-resolved spectra may be obtained and a three-dimensional representation of the spectra can be displayed with the time values on the z-axis. I.S.S. Circle 586.

## Small Freezers

The LABMATE-85 series is composed of two freezers sized for use in a laboratory. Model 101 is a 1-cubic-foot upright freezer that fits on a standard bench, and model 303 is a 3-cubic-foot chest freezer. Both are quiet, and both operate at  $-85^{\circ}\text{C}$ . With a LABMATE-85, a researcher has a freezer conveniently located in the laboratory and avoids sharing freezer space with other labs. This minimizes the amount of time heat-sensitive materials are exposed and reduces the danger of contamination. Rush Enterprises. Circle 590.

## Fiber-Optic Illumination Systems

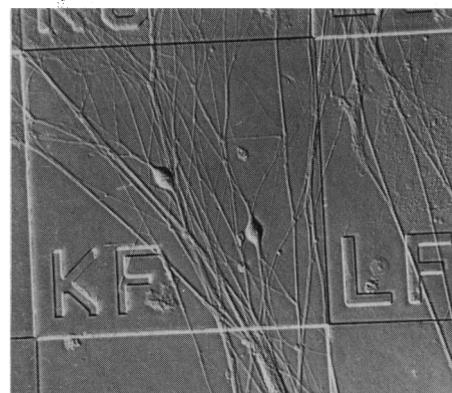
Flexilux is a line of modular, cold-light illumination systems. These systems adapt to most stereomicroscopes and macroscopes, and some versions are designed for photography, with built-in diaphragms to reduce light intensity without altering the color temperature. All systems are compact and contain integral heat-absorbing filters. H&R Optical Systems. Circle 587.

## Automated Spectrometer

The Gemini FT NMR is an automated spectrometer designed for proton and carbon experiments. Its menu-driven user interface enables even novice users to obtain results to complex nuclear magnetic resonance problems quickly and easily. Other aids to the user include extensive self-diagnostic capabilities, many automated NMR experiments (including HETCOR, HC APT, and DEPT), and the option to type commands rather than choosing from the menu. The Gemini FT NMR may be linked with other Gemini spectrometers, as well as with VXR spectrometers and DEC VAX computers. Varian Associates. Circle 612.

## Cultured Cells Identifier Stamp

The BB-Press contains a die microetched onto a silicon wafer. The tool allows the user to "heat stamp" an ordinary 35-mm plastic petri dish with a 26 by 26 cell grid measuring only 8 mm on each side. Each resulting cell within the grid is roughly  $300\ \mu\text{m}$  square and has an identifier. For example, in the photograph, KF indicates column K and row F. Petri dishes so marked are suited for developmental studies, serial microinjection of a large population of cells, and other



procedures involving cells and a microscope. Marking a dish with the BB-Press takes less than 2 minutes, and the Press will last through thousands of stampings. World Precision Instruments. Circle 583.

## Literature

*Amino Acid and Peptide Catalog* includes amino acids and their derivatives, reagents for solid-phase peptide synthesis, and biologically active peptides. Chemical Dynamics. Circle 594.

*Directory of Online Databases* contains descriptions of 3169 databases available from 486 online services worldwide. The databases are indexed six ways. The quarterly publication costs \$95 for a 1-year subscription. Cuadra/Elsevier. Circle 595.

*Electronic Balances* is a catalog of 11 top-loading and 5 analytical balances featuring RS-232c interface, built-in memory, automatic calibration, and a display lock. Fisher Scientific. Circle 596.

*Bioscience Catalog* contains research equipment for laboratories and is divided into eight sections: (i) liquid pumping, (ii) respiration and metabolism, (iii) animal research, (iv) recording, (v) neurophysiology, (vi) perfusion, (vii) laboratory products, and (viii) books. Harvard Apparatus. Circle 597.

*Hybridoma Technology Services* describes contract research and immunoassay services. Hazleton Biotechnologies. Circle 598.

# Science

## Products & Materials

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