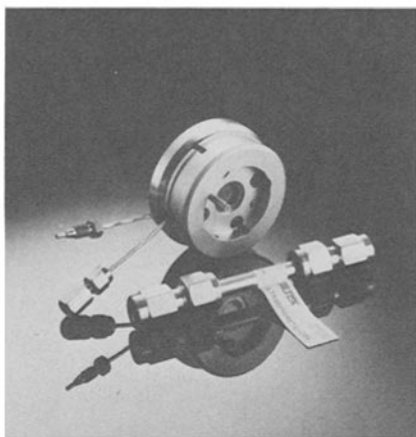


# New Products



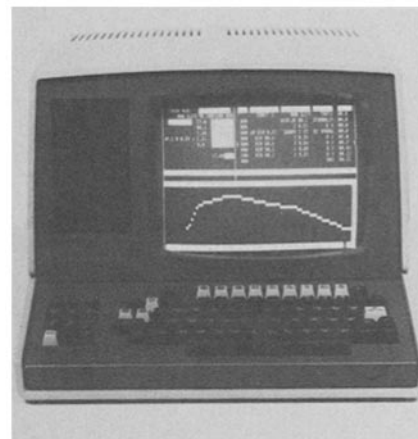
## COLUMN AND FLOW CELL

Beckman Instruments offers two new high-speed components for use with the 340 Series Liquid Chromatographs and the Model 501 Autosampler. New 3- $\mu$  7.5 cm-long columns allow more than 10,000 plates/column for rapid analyses, even at low flow rates. The 3- $\mu$  columns offer the same coverage,

end-capped chemistry and selectivity as the regular 5- and 10- $\mu$  columns. A low volume flow cell allows HPLC system users to take full advantage of the 3- $\mu$  columns. The cell design provides maximum performance from optimum flow dynamics with a sensitivity found in standard flow cells. Contact: Beckman Instruments Div., 1780 4th St., Berkeley, CA 94710.

## CHEMICAL INJECTION SYSTEM

Bran & Lubbe Inc. has designed a new chemical liquid injection system that uses low-capacity metering pumps. Pumps are direct-driven with linear displacement and variable capacity adjustment from zero to 100 percent. Flow rate capacities range from .13 to 112.5 gph; 10 plunger diameters are available. Discharge capacities are set by adjusting the stroke length. Contact: Bran & Lubbe Inc., 512 Northgate Pkwy., Wheeling, IL 60090.



## MICROCOMPUTER HPLC PROGRAMMER

Cole Scientific has introduced a microcomputer-based gradient controller for HPLC. In addition to regular HPLC system control features, the dual Z-80 based Model 711 has a built-in 5-14" floppy disk for unlimited file storage and capabilities for use as a microcom-



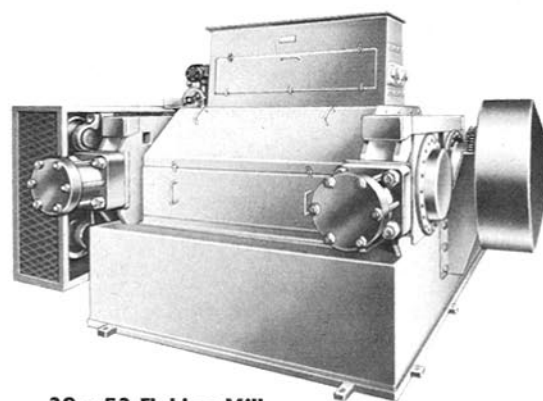
## PRECISION FLAKING HIGH CAPACITY

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## New Products

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puter. The unit controls up to three pumps and can be used to upgrade most HPLC systems. Method-building is made simple with special color-coded HPLC function keys and screen prompting. Gradient profiles are displayed on the 12" CRT screen with a cursor showing the current run status. Contact: Cole Scientific, 23966 Craftsman Rd., Calabasas, CA 91302.

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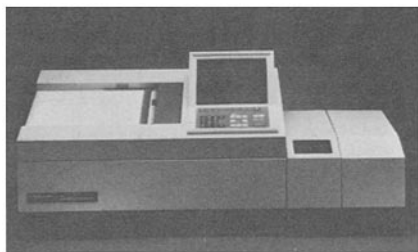
### ELECTRONIC BALANCES

A new series of electronic, top-loading balances has been introduced by the Sartorius Balance Div. of Brinkmann Instruments. Weighing capacities range from 600 g to 5500 g, and readability ranges from .01 to .1 g. The balances can be used with data handling equipment. Features include fewer electronic components resulting in increased durability, extra large weighing pans for bulky samples and a height of 2-1/2 inches for ease in handling. Contact: Brinkmann Instruments Inc., Cantiague Rd., Westbury, NY 11590.

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### FOAM TEST-TUBE RACK

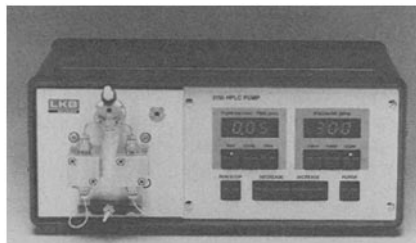
According to Clinical Plastics Inc., its new plastic foam test tube rack securely holds fifty 12 x 75 mm tubes and decants an entire batch without any tubes falling out. The rack is die-cut from charcoal colored polyester foam. The rack comes with 50 tinted 12 x 75 mm polypropylene tubes, and is useful for shipping small vials. Contact: Clinical Plastics Inc., 17 Marguerite Ave., Leominster, MA 01453.



### INFRARED SPECTROPHOTOMETER

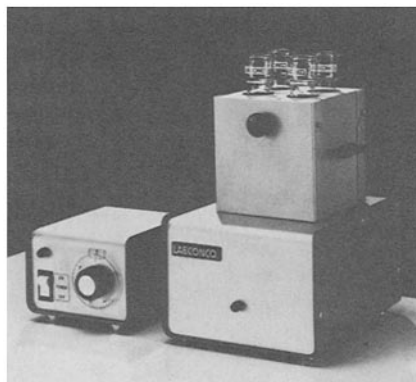
Perkin-Elmer's new microprocessor-controlled infrared spectrophotometer, Model 983, can be used in organic chemistry research, biological and forensic chemistry fields, pharmaceutical mixture analyses and in measurements of difficult samples such as dilute aqueous solutions. Special features include comprehensive data processing, ratio recording, wavelength

range from 5000  $\text{cm}^{-1}$  in the near infrared to 180  $\text{cm}^{-1}$ , a soft key panel and visual display unit, and automatic wavenumber correction. Contact: Perkin-Elmer Corp., Main Ave., Mail Station 12, Norwalk, CT 06856.



### PUMP FOR HPLC

LKB Instruments has introduced a new pump as part of their system for the separation of proteins and peptides using HPLC. With its reproducible performance at low flow rates, this pump can be used for optimized flow chromatography of proteins and microbore and capillary column applications. The pump features dual-piston design and automatic compressibility compensation and is available with either stainless steel or ceramic-lined heads. Contact: LKB Instruments Inc., 12221 Parklawn Dr., Rockville, MD 20852.



### DIGESTOR

The Rapid Digestor-4, introduced by Labconco Corp., is a four-place digester designed for use in wet digestions by laboratories handling moderate sample loads. Capable of digesting many types of samples in about 25 minutes, the unit includes four individual ceramic embedded heaters for uniform and efficient heat transfer. A solid-state control unit regulates the temperature of the individual heaters from ambient to 450 C. Both the controller and the digester are housed in a corrosion-resistant cover. Two styles of digestion tubes are available. Contact: Labconco Corp., 8811 Prospect, Kansas City, MO 64132.

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### ANALYTICAL VERSAGRAPH

The Model 1800 versagraph from Lin-

ear Instruments Corp. features a reverse and forward chart drive that allows sequential analytical runs to be made side by side or superimposed on a single chart for comparisons of an entire series. A pulse modulated servo permits full pen response to small signal changes normally not seen on conventional recorders. Other features include front chart paper loading, digital control of zero suppression, electric pen lift, built-in calibration and 0.35 second full scale response. Contact: Linear Instruments Corp., 500 Edison Way, Reno, NV 89502.



### BIN ACTIVATOR

A new bin activator from Material Control Engineering Ltd. controls the flow rate of discharged materials, including difficult ones that are cohesive or free flowing and those likely to flush. The activator has variable controls for automated flow rates from silos and intermediate bulk containers and uses no electric motors. Units can be attached to round or square silos and hoppers and have no flexible links or sleeves which might cause off-center movement, spillage or waste. Contact: Material Control Engineering Ltd., The Old Mill, Landgate Yard, Well Lane, Stow-on-the-Wold, Gloucestershire, England.

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### PNEUMATIC VALVES

Fluorocarbon's new line of Teflon, air-actuated pneumatic valves are suitable for use where heat build-up is undesirable and where alcohol, solvent or potentially explosive media are kept. The valves, designed in 2- and 3-way flow configurations and explosion-proof, feature double-diaphragm seals to prevent leakage and are available in sizes 1/8" through 1/2". Contact: Fluorocarbon Co., 1432 S. Allec St., Anaheim, CA 92803.

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### MOBILE ACTION CLEANING SYSTEM

A mobile action cleaning system (MACS) for tank cars and stationary tanks introduced by EMI eliminates the necessity of moving tank cars to a central cleaning plant. The system includes two 3,500-gallon water tanks, a

300-gallon tank of concentrated detergent solution, high pressure pumps and a vacuum return. The cleaning solution is heated and sprayed throughout the tank. The vacuum returns the solution to the tank where it is cleaned and recycled, preventing the release of fumes into the atmosphere. This system is useful for cleaning barges, tankers and stationary tanks. Contact: EMI Services Co., 3166 Des Plaines Ave., Des Plaines, IL 60018.

#### SPECTROMETER SYSTEMS

Bausch & Lomb has developed two atomic emission analytical spectrometer systems, the ARL Model 3560 AES and Model 3580 AES, capable of providing simultaneous/sequential analysis. The two systems can be used for both general optical emission applications and inductively coupled plasma applications involving the analysis of liquids and gases. The 3560 is a high-speed polychromator system capable of determining up to 60 elements simultaneously. In addition to the capabilities of the 3560, the 3580 has a microprocessor-controlled scanning monochromator. Mounted one above the other in the same cabinet, both spectrometers make up the 3580 sys-

tem, which is designed for both industrial process control and R & D laboratory applications. Contact: Bausch & Lomb, Instruments & Systems Div., 9545 Wentworth St., Sunland, CA 91040.

#### SHORTENING PRODUCTION SYSTEM

The Groen Div. of Dover Corp. has developed a new shortening production system that uses an efficient scraped surface heat exchanger combined with motionless crystallizing elements to produce shortening. This new system produces 25,000 pounds of shortening per hour using 15 motor horsepower, 34 square feet of production floor space and 62 tons of 6F refrigeration. Systems are sized to meet the individual needs of central bakeries, meat processors and commercial shortening processors. Contact: Groen Div./Dover Corp., 1900 Praff Blvd., Elk Grove Village, IL 60007.

#### NEW PRODUCT LITERATURE

**Miran-980 Infrared Spectrometer for Quantitative Analysis of Liquid Detergent** is an application report by Foxboro Analytical, PO Box 5449, S.

Norwalk, CT 06856. . . Pipette and glassware cleaners are featured in a technical note issued by Heat Systems-Ultrasonics Inc., 38 E. Mall, Plainview, NY 11803. . . Series 340 high-performance liquid chromatographs are covered in a brochure available from Beckman Instruments Inc., Scientific Instruments Div., 1716 Fourth St., Berkeley, CA 94710. . . **Bulletin 639** from Fisher Scientific, 711 Forbes Ave., Pittsburgh, PA 15219, describes 11 Fisher/Ainsworth top-loading electronic balances. . . Perkin-Elmer Corp., Main Ave., Mail Station 12, Norwalk, CT 06856, describes the use of certain solvents in the selective removal or extraction of additives from formulated products in **Bulletin IRB-80**. . . GCA's solid-state laboratory ovens and constant-temperature incubators are detailed in two new brochures from GCA/Precision Scientific Group, Marketing Dept., 3737 Cortland St., Chicago, IL 60647. . . Ohmart Corp., 4241 Allendorf Dr., Cincinnati, OH 45209, offers a bulletin entitled **Continuous Moisture Measurement for the Process Industries**, written for handlers of free-flowing materials. . . **Catalog Supplement 182** detailing new laboratory products is free from Bel-Art Products, Pequannock, NJ 07440. . . New scientific glassware and instruments are illustrated in **Bulletin 981** from Kontes, Spruce St., PO Box 729, Vineland, NJ 08360. The first edition of **The Supelco Reporter**, featuring current chromatography issues and new products, is free from Supelco Inc., Supelco Park, Bellefonte, PA 16823. . . The new edition of the **Chromatographer**, featuring methods of separating PAH Pollutants by HPLC, has been released by the Applied Science Div., Milton Roy Co. Laboratory Group, PO Box 440, State College, PA 16801. . . An updated, 24-page brochure on the properties of Hamposyl sarcosinate surfactants used in conditioning shampoos, liquid soaps and bath products is available from the Organic Chemicals Div., W.R. Grace & Co., Poisson Ave., Nashua, NH 03061. . . A free copy of the **Sight Flow Indicators** technical bulletin, containing general information on the Penberthy Houdaille industrial-grade, sight-flow indicators of gas or liquid flow behavior in process lines, is available from Penberthy Div., Houdaille Industries Inc., PO Box 112, Prophetstown, IL 61277. . . A 75-page catalog of pretested laboratory instruments, apparatus and glassware has been released by the United States Testing Co. Inc., Standards Inspection Div., 1415 Park Ave., Hoboken, NJ 07030.

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