

Scanning Electron Microscope

The Mini-Rapid Scan (Fig. 1) is a desk-top instrument with a resolution of 750 angstroms, a magnification range of 20 to 10,000 power, an accelerating voltage of 10 kilovolts, and a price under \$10,000. Operation is simple, there are few controls, and sample insertion is easy. The device is equipped with an air-cooled oil diffusion pump and operates on standard current. Specimen exchange is accomplished in 1 minute or less. The images observed are displayed on a 7 by 5½ inch television screen. International Scientific Instruments, Incorporated (ISI). Circle No. 140 on Readers' Service Card.

Portable pH Meter

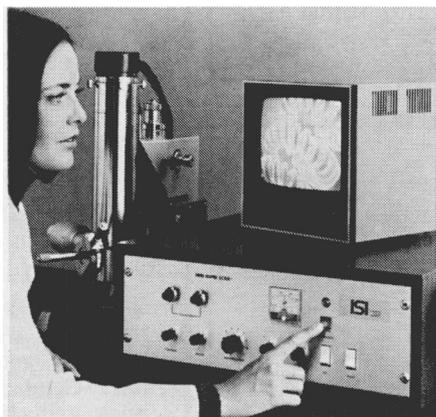
The model 3 (Fig. 2) includes a combination electrode, two 9-volt batteries, and a carrying case. Accuracy is within ± 0.2 pH unit and ± 12 millivolts. The instrument's range is from 2 to 12, with an overrange of 2 pH units at each end of the scale, and from -300 to $+300$ millivolts. There is a manual control to adjust the readout to any temperature from 0° to 100°C . Corning Scientific Instruments. Circle No. 141 on Readers' Service Card.

Linear Fraction Collector

The model 328 Golden Retriever (Fig. 3) has four different sets of removable collection racks which handle test tubes from 10 to 25 millimeters in diameter or 28-millimeter scintillation vials. Time, drop, or volume collection

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increments are set with digital thumb wheels. The shifting mechanism is removable, consists of only three moving parts, and is submersible for cleaning. Surface coatings are chemically resistant and the device has internal heaters to prevent condensation. Options include a delay timer to synchronize tube changes with recorder event marks and a digital readout to indicate increments per tube or total samples collected. Instrumentation Specialties Company (ISCO). Circle No. 142 on Readers' Service Card.



Radiographic Imaging System

The Beta-Graph accepts plates up to 20 by 20 centimeters and up to 7 millimeters thick. The device employs a scintillating gas and Polaroid film to produce a permanent photographic record of the radioactivity on radiochromatograms, thin-layer plates, electrophoresis gels, or even tissue sections. Production of such an image requires only about 20 minutes, which is faster than previous autoradiographic systems. Panax Nucleonics Canada Limited. Circle No. 143 on Readers' Service Card.

Literature

Advanced Materials Catalog lists metals, alloys, ceramics, cermets, evaporation sources, and chemicals in a variety of purity grades, forms, and quantities. Materials Research Corporation. Circle No. 132 on Readers' Service Card.

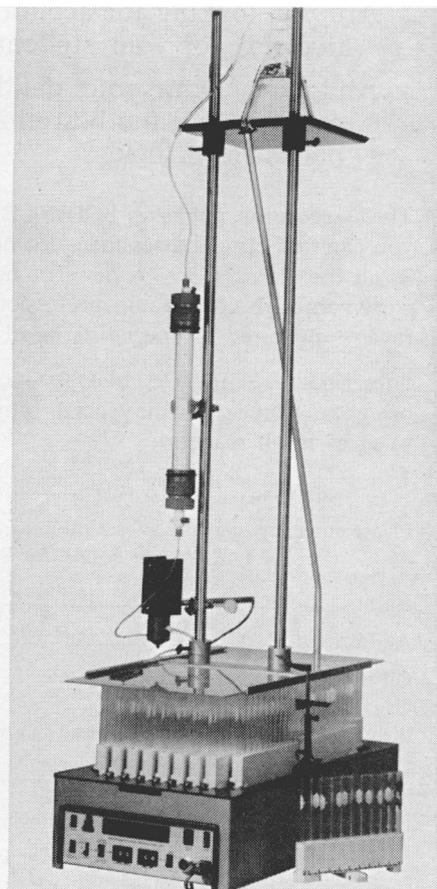


Fig. 1 (top left). The Mini-Rapid Scan scanning electron microscope from ISI produces televised images magnified from 20 to 10,000 power. Ease of operation and low cost are its greatest advantages. Fig. 2 (bottom left). Corning's model 3 portable pH meter with an effective range from 0 to 14 and between -300 and $+300$ millivolts is suitable for student or rugged industrial application. Fig. 3 (right). The ISCO Golden Retriever linear fraction collector accepts several sizes of test tubes or scintillation vials.

Science

Literature

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