

# PRODUCTS and MATERIALS

## Wind Energy Conversion System

The MP 1-200 supplies 60-cycle, alternating current electricity and can generate 200 kilowatts at wind speeds of 30 miles per hour. It consists of a three-bladed upwind rotor 80 feet in diameter that will extract 59 percent of the wind's power. A sensor locates the prevailing current and an 18-foot cylindrical housing is hydraulically moved to face the rotor into the wind. Electric generation begins when wind speed is 8 miles per hour. A microprocessor controls parameters of operation and electric output. The device automatically shuts down at 60 miles per hour and can withstand winds of 150 miles per hour. A gear assembly provides for maintenance of a steady 30 revolutions per minute. WTG Energy Systems. Circle 709.

## Noncontact Measurement of Motion and Position

Selspot is an optical electronic means of precisely measuring movement and position of up to 30 light-emitting diodes simultaneously in two or three dimensions. Ambient light conditions have little effect on uses of Selspot. The system consists of a camera, an LED control unit, and a movement monitor. The camera output (the simultaneous reception of position of the activated diodes) is transmitted to the monitor for processing. Software is available for on-line processing of the information. The heart of the system is the unique detector in the camera. Applications include stress analysis, alignment of broken bones, vibration analysis, and others. Selective Electronic. Circle 714.

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 (on pages 1252A and 1304A) and placing it in the mailbox. Postage is free.

—RICHARD G. SOMMER

## Electrolytic Conductivity Detector

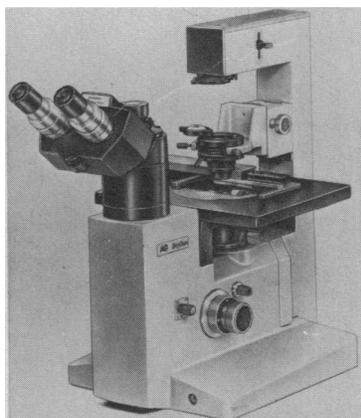
The 700A Hall electrolytic conductivity detector is designed for analysis of chlorinated compounds. The device utilizes bipolar-pulse circuitry for sensitivity improved by up to two orders of magnitude over other conductivity detectors. A microreactor assembly provides fast warm-up and stable operation. Optical kits allow specific detection of nitrogen- or sulfur-containing compounds. Tracor Instruments. Circle 711.

## X-ray Fluorescence Analyzer

The TEFA III tube-excited fluorescence analyzer provides complete elemental assays in a matter of minutes. Eighty-two natural elements from sodium to uranium and transuranium elements are analyzed over a broad range of concentrations from parts per million to 100 percent. Microprocessor control and software combine to automate and simplify most steps of analysis. EG&G/Ortec. Circle 713.

## Inverted Biological Microscope

Biostar features an infinity-corrected optical system that provides correction for lateral color, astigmatism, and curvature of field. The solid-state illuminator has a quick-change tungsten-halogen



lamp and an integral field diaphragm and dual- or multiview adaptor. An oblique illumination system is available for flask microscopy. Objectives include planachromatic, achromatic, bright field, and phase contrast darkfield units. The stage is 8 by 10 inches and the stand is also large and sturdy. American Optical. Circle 710.

## Identification of Enterobacteriaceae

Enterotube II contains 12 compartments for the performance of 15 diagnostic tests to identify enteric isolates. The tests include glucose, gas production, lysine decarboxylase, ornithine decarboxylase, hydrogen sulfide, indole, adonitol, lactose, arabinose, sorbitol, Voges-Proskauer, dulcitol, phenylalanine deaminase, urea, and citrate. A discrete bacterial colony is picked from a culture plate with an inoculating needle which is drawn through the compartments. The inoculated tube is incubated at 35° to 37°C for 18 to 24 hours and the results may then be read. Roche Diagnostics. Circle 712.

## Literature

*Chromatographic Supplies and Pollution Standards* is an extensive catalog for environmental scientists studying air and water pollution with biochemical techniques. RFR. Circle 715.

*Reversed-Phase HPLC* is a guide to the selection of the appropriate micro-particle columns for this technique. Whatman. Circle 716.

*Scanning Microscope Observation* describes scanning electron microscope and x-ray microanalyzer image disturbances and how to correct them. JEOL USA. Circle 717.

*Diagnostic Reagents* includes descriptions of more than 100 reagents including control and reference serums, liquid and lyophilized enzyme reagents, and others. Beckman Instruments. Circle 718.

*Blood Chemistry Analyzer* lists the features and design specifications of the Rotochem IIa centrifugal analyzer with 36-cuvette rotor. American Instrument. Circle 719.

*Microscopes* details the ten microscope models that are included in the seven for six plan that offers a free item with every purchase of six units of the same type. Fisher Scientific. Circle 720.

*Carbon and Oxygen Demand Analysis* is a wall chart that compares BOD, COD, TOD, TC, and TOC techniques. Ionics. Circle 721.

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