

## New Products

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Neither Science nor the writer assumes responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to the manufacturer. Include the department number in your inquiry.

■ **POLARIZATION INTERFEROMETER ACCESSORY** for Reichert reflected-light microscopes permits assessment of surface finish without contact. The interferometer is placed between the vertical illuminator and the objective of the microscope. Its most essential part is a double quartz wedge arranged between crossed polarizing elements. A system of interference fringes appears in the field of view of the microscope that can be interpreted to deduce surface configuration of the object. (William J. Hacker & Co., Dept. Sci798, P.O. 646, West Caldwell, N.J.)

■ **COMPOUND SINE TABLE**, available in five sizes from 9 to 36 in. in diameter, permits angles up to 45° to be set. Movement is provided by a hemisphere riding in a conical seat. Sine settings are obtained by insertion of gage blocks under two ball-ended pins spaced 90° apart. Accuracy is said to be ±10 sec. (Engis Equipment Co., Dept. Sci809, 431 S. Dearborn St., Chicago 5, Ill.)

■ **LINEAR ENCODER SYSTEM** measures length by unreeling a 0.070-in. diameter steel cable from an aluminum drum. A take-up motor keeps the cable under tension. As the cable is pulled out, the drum rotates ½ turn for each foot of cable. The drum is geared at 5-to-1 ratio to an encoder assembly that converts rotation into an output signal digitally coded in feet and inches. The drum holds 104 ft of cable in a helical groove. (Datex Corp., Dept. Sci820, 1307 S. Myrtle Ave., Monrovia, Calif.)

■ **MUTUAL CONDUCTANCE METER** provides direct reading of mutual conductance with accuracy said to be ±2 percent. A calibration circuit is built in. Thirteen multirange meters permit complete tube analysis under standard or nonstandard operating conditions. Five independent regulated power supplies are provided. A grid current meter is included. A completely automatic model is available on special order. (Westmore, Inc., Dept. Sci836, 137 South Ave., Fanwood, N.J.)

■ **DIGITAL MULTIMETER** features all-electronic solid-state circuitry. Voltage is measured in five ranges from 0.00001 to 999.9 volts; d-c ratio, from 0.0001 to 99.99 in three ranges; a-c voltage, from 0.0001 to 999.9 in four ranges; and resistance, from 0.1 ohm



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<b>Electric Brake</b>	●	●	●	—	—	—
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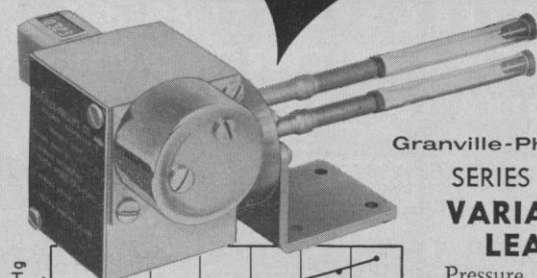
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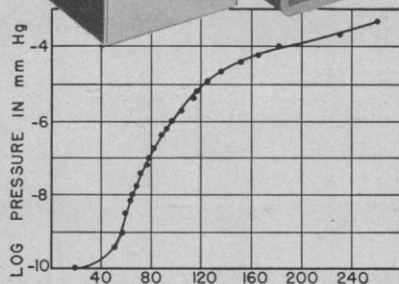
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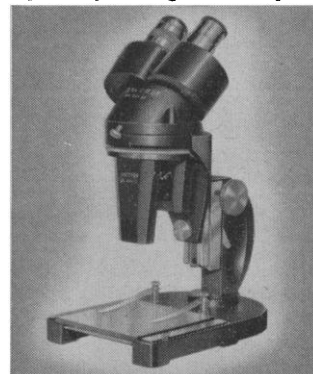
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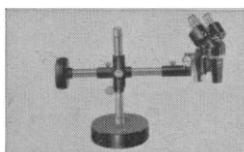
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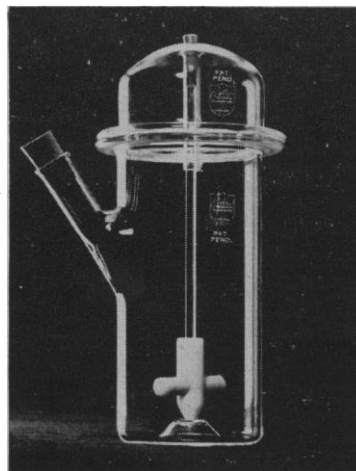
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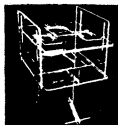
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■ VIBRATION METER accepts input from piezoelectric as well as seismic type transducers. Up to six transducers can be used simultaneously. One at a time can be selected by a function switch. Built-in networks integrate and differentiate the inputs to give direct velocity, displacement, and acceleration measurement. Acceleration range is 0 to 1000 grav; velocity, 0.01 to 100 in./sec; displacement, 0.001 to 10 in. (Southwestern Industrial Electronics Co., Dept. Sci840, 10201 Westheimer Rd., Houston 27, Tex.)

■ RADIOACTIVE MATERIALS HANDLER handles weights up to 150 lb and operates up to 200 ft from the operator. It is mounted on a standard fork-lift truck. Handling arms, 3 ft long, have 360-deg shoulder rotation, 30-deg shoulder bend, and 120-deg elbow bend. Jaw grip pressure varies from 10 to 800 lb. Two television cameras have continuous focus from 12 in. to infinity. Four speeds forward and reverse are provided with maximum speed 2 mi/hr. Capability of positioning of objects in three dimensions to within 1/16 in. is said to be achieved with 35 hr operating experience. (Hughes Aircraft Co., Dept. Sci842, Culver City, Calif.)

JOSHUA STERN

National Bureau of Standards,  
Washington, D.C.

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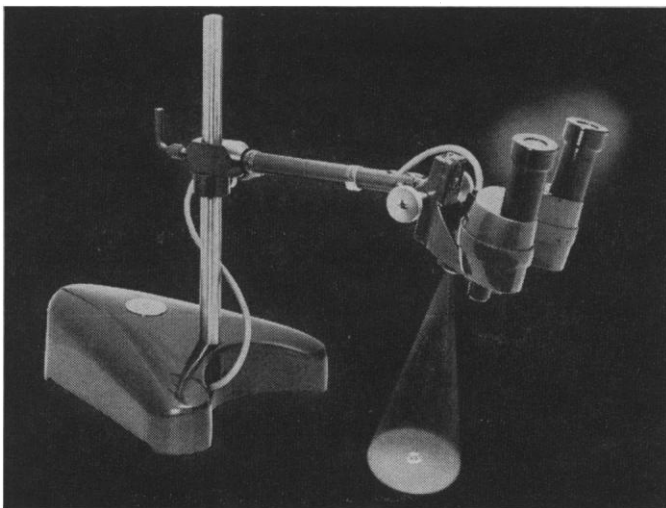
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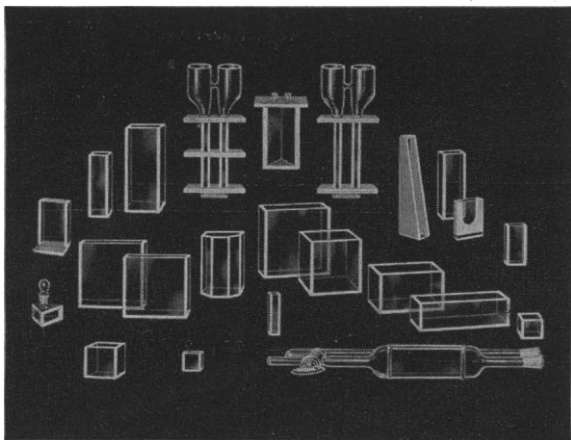
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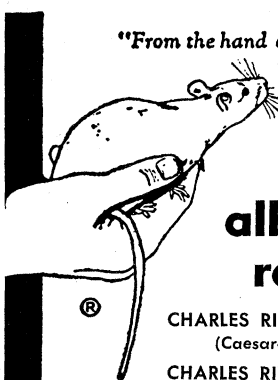
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These annual fellowships in the natural sciences are tenable for a period of 12 months. They are intended for scientists with several years of postdoctoral research experience.

It is expected that the candidate will have worked in a field close enough to one of the subjects under investigation at the Weizmann Institute of Science so that he will be able to join an existing research team.

The stipend includes round-trip fare by air for the scientist and his family and an adequate living allowance in Israel in local currency. The Institute endeavours to help find suitable accommodation.

Applications should reach the Academic Secretary, the Weizmann Institute of Science, Rehovoth, Israel, not later than 1 December 1960. Further particulars and application forms may be obtained from the Academic Secretary.

\* Established by the Weizmann Memorial Foundation.

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