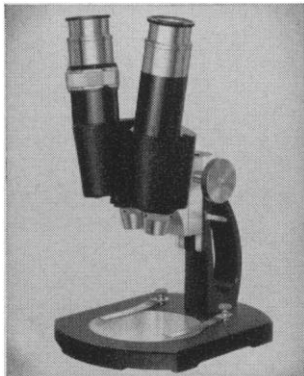
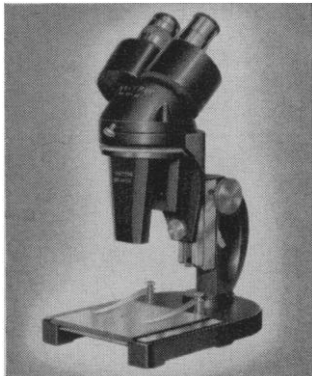


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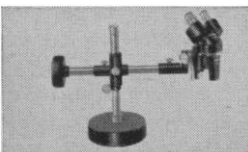
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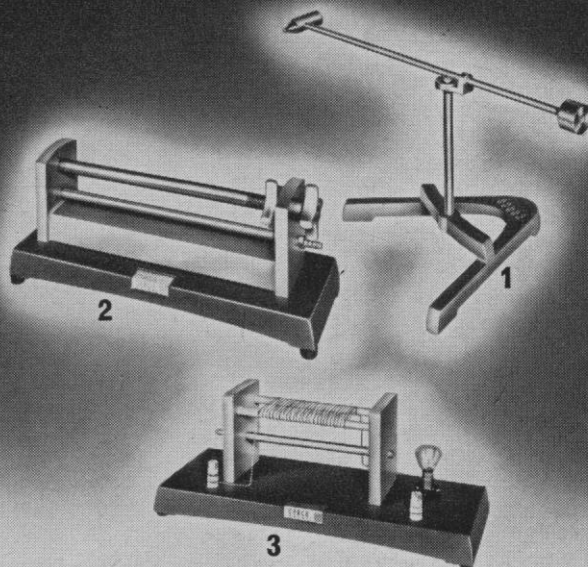
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New Products

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.

■ **EIGHT-CHANNEL RECORDER** can be set up, by means of plug-in modules, to accommodate a variety of input signals. Frequency response is ± 1 percent from d-c to 110 cy/sec. Full-scale trace amplitude is 4 cm. A carbon-transfer method of writing is said to produce an exceptionally thin line that is permanent and reproducible by all conventional processes. The recording stylus is dithered at a frequency of 400 cy/sec with imperceptible amplitude to eliminate friction and static error. Chart speed can be changed by push-button selection between 0.1 and 500 mm/sec. (American Optical Co., Dept. Sci959, Buffalo 15, N.Y.)

■ **PARAMETRIC AMPLIFIER** provides instantaneous band width of 35 to 40 Mcy/sec, over-all noise figure of 2.0 db, and gain of 20 db. It is available at customer-specified center frequencies in the 500 to 1000 Mcy/sec range. (Varian Associates, Dept. Sci969, 611 Hansen Way, Palo Alto, Calif.)

■ **FLOW TRANSDUCER** for use with orifice plates, flow tubes, or weirs utilizes an opposed-bellows meter body together with a precision potentiometer winding to provide an output signal directly proportional to flow. Characterization is accomplished by tapping and shunting the winding to the specific curve desired. Total resistance values from 500 to 5000 ohms are available. Differential pressure ranges from 0 to 20 in. of water to 5000 lb/in.² can be provided. Between 20 and 100 percent of flow, resolution is said to be within 0.1 percent and linearity within ± 0.5 percent of total flow for all ranges above 0 to 50 in. of water. (H. E. Sostman & Co., Dept. Sci960, 347 E. Lincoln Ave., Cranford, N.J.)

■ **SIGNAL GENERATOR** provides continuous-wave, frequency-modulated, and pulse-modulated radio-frequency energy continuously tunable over the range 4200 to 11000 Mcy/sec. Repetition rate is variable from 10 to 10,000 pulses per second, and delay is variable from 2 to 2000 μ sec. A self-contained modulator provides pulse widths said to be as small as 0.2 μ sec. Output is 1 mv calibrated. Tuning dial accuracy is ± 1 percent. (Polarad Electronics Corp., Dept. Sci963, 43-20 34 St., Long Island City 1, N.Y.)

■ **ELECTROLYTIC HYGROMETER CELL** for measurement of the moisture content of hydrogen streams is designed to eliminate errors attributed to recombination of the electrolytically generated oxygen with the hydrogen stream. The cell, recommended by the manufacturer for measurements when hydrogen concentration is greater than 50 percent, is said to be capable of removing and electrolyzing most of the water with an insignificant amount of recombination. (Beckman Instruments, Inc., Dept. Sci967, 2200 Fullerton Rd., Fullerton, Calif.)

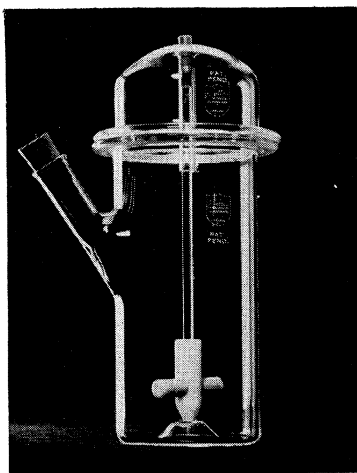
■ **PLASMA SPRAY GUN** conversion kit permits the modification of SG-1 handheld plasma spray gun to variable arc temperature. The kit permits adjustment of the jet temperature between $+300^{\circ}\text{F}$ and $+30,000^{\circ}\text{F}$ as follows: the distance the adjustable rear electrode projects into the throat of the front electrode is changed by adjustment of the insulated rod to which the rear electrode is mounted. The closer the arc to the injection point the hotter the jet temperature at injection. (Plas-madyne Corp., Dept. Sci968, 3839 S. Main St., Santa Ana, Calif.)

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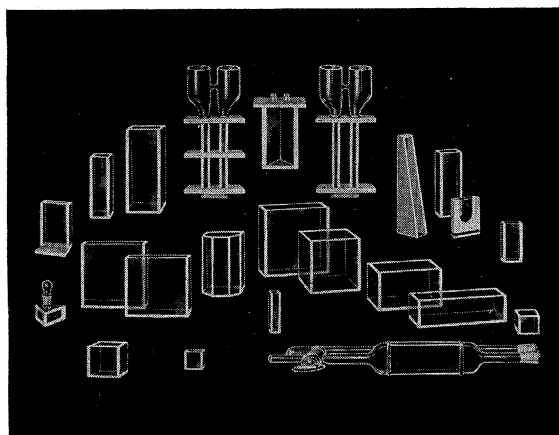
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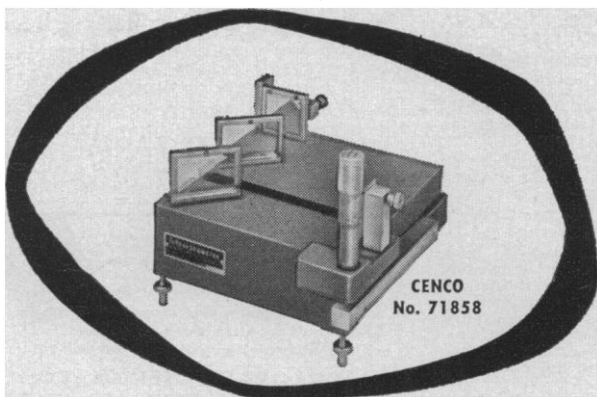


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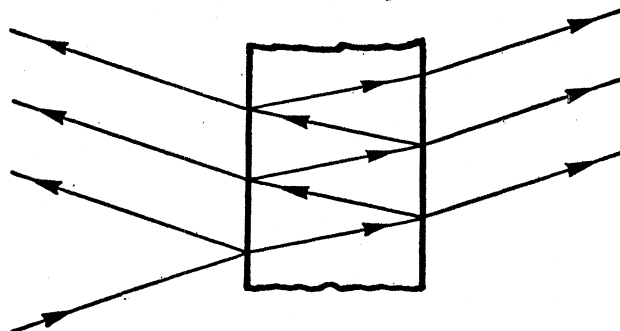


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(a) **Clinical Biochemist** for active 250-bed hospital near Appalachian Mountain range; \$12,000; Southeast. (b) **Biology Teacher** for private college; East. (c) **Genetic Scientist** for cancer research at university-affiliated institute; \$8000-\$10,000; East. (d) **Physiologist** to study effects of whole-body vibration and physiological response at human factor laboratory; \$7500 up; additional university affiliation possible; Midwest. (e) **Bacteriologist** to head department in new 350-bed hospital expanding to 450 beds; California. (f) **Virologist** trained in tissue culture for tumor virus research at large medical center with new facilities; East. (g) **Biochemist** trained in chromatographic, electrophoretic techniques for research on Hodgkins Disease; around \$10,000; Southwest. (h) **Immunochemist** for allergy research and independent studies of enzyme systems in peanuts and other projects at experimental station; university rank; around \$9000; South. (i) **Biologist** for research on environmental radioactive contamination at nuclear medical center; \$7000-\$10,000; West. (j) **Immunologist** qualified in biological methods for detecting antigens in tumor research; \$10,000; Southeast. (k) **Senior Pharmacologist** with creative ability for chemosynthetic research with large drug firm; \$12,000-\$15,000; East. (l) **Physiologist/Bacteriologist** to take charge of new electron microscopy department of medical research institute; Midwest. (m) **Chemist** to supervise toxicological laboratory of large city morgue; around \$9000; Midwest. (n) **Bacteriology-Public Health Professor** to develop virology teaching and research program at large university; around \$9000; East. (Please write for details; also many other positions available through our nationwide service.) S12-3 Medical Bureau, Inc., Science Division, Burnice Larson, Chairman, 900 North Michigan Avenue, Chicago. X

The Boreal Institute of the University of Alberta invites applications for the position of **Executive Director**.

The Executive Director will be a full-time appointee who will aid the Directorate in planning the activities of the institute, implement the decisions of the Directorate, administer the daily operations of the institute, solicit funds for the advancement of the institute, and publicize the activities and accomplishments of the institute.

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Applicants must include a complete résumé of experience, educational background, references, other pertinent data, and a recent photograph.

The appointment will be effective 1 April 1961. Salary is dependent upon qualifications, but will be in the range \$8000-\$12,000 per year. Applications should be submitted to reach the Boreal Institute, University of Alberta, Edmonton, Alberta, Canada, prior to 1 February 1961. Applications will be held in confidence if desired. X

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Newark, N.J.

MICROBIOLOGY

Applications are invited for the position of professor of microbiology and head of the department, from 1 September 1961. The salary floor is \$12,000.

Application should be made to the Dean of Arts and Science, University of Manitoba, Winnipeg, Manitoba, Canada, and should include curriculum vitae, list of publications, and names of three referees.

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Prospective or recent Ph.D., as collaborator in studies of protein denaturation at Massachusetts Institute of Technology. Excellent salary, appointment renewable for several years. P.O. Box 2176, Potomac Station, Alexandria, Virginia.

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Four copies of applications, together with the names of two referees, should be lodged with the Agent General for New South Wales, 56 Strand, London, W.C.2, and a copy forwarded by airmail in an envelope marked "University Appointment" to the Bursar, The University of New South Wales, Box 1, Post Office, Kensington, New South Wales, Australia, before 31 January 1961

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Applications are invited for two appointments in mathematics: **Assistant Professor** (\$7500) and **Associate Professor** (\$9000). Letters should include curriculum vitae and the names of three referees. They should be forwarded to J. W. Lawson, Head of the Department of Mathematics, University of Manitoba, Winnipeg, Manitoba, Canada. The appointment will commence 1 September 1961.

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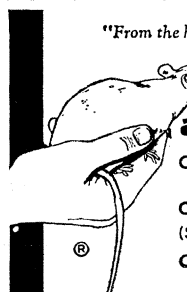
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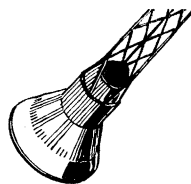
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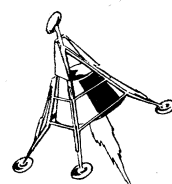
NASA program-highlights

NEXT DECADE IN SPACE

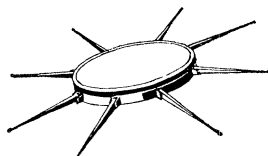
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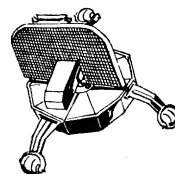
Project Mercury—U. S.'s first manned satellite.



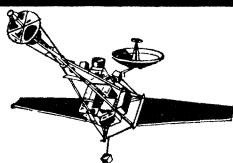
Project Surveyor—First soft landing on moon. Conduct observations from stationary position.



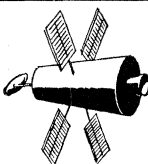
Project Prospector—Soft landing on moon and exploration of area within 50 miles of landing point.



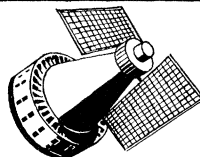
Solar Observatory—350 lb. Large flywheel and extended arms rotate to stabilize. Under construction.



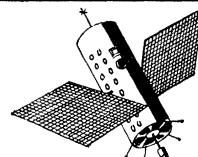
Project Mariner—600 to 1200 lbs. First U. S. Planetary missions to Venus and Mars. Modified craft for hard landings on moon.



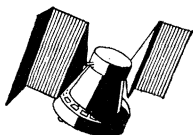
Project Voyager—Orbit Mars and Venus and eject instrumented capsule for atmospheric entry and perhaps landing.



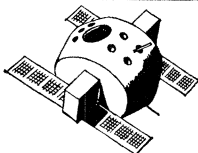
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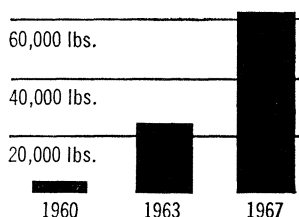
Orbiting Geophysical Observatory—1000 lb. geophysical research satellite designed for a near earth circular polar orbit or an inclined highly elliptical orbit.



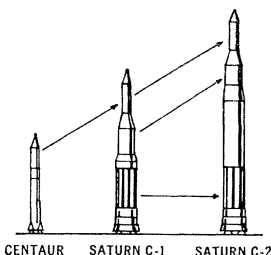
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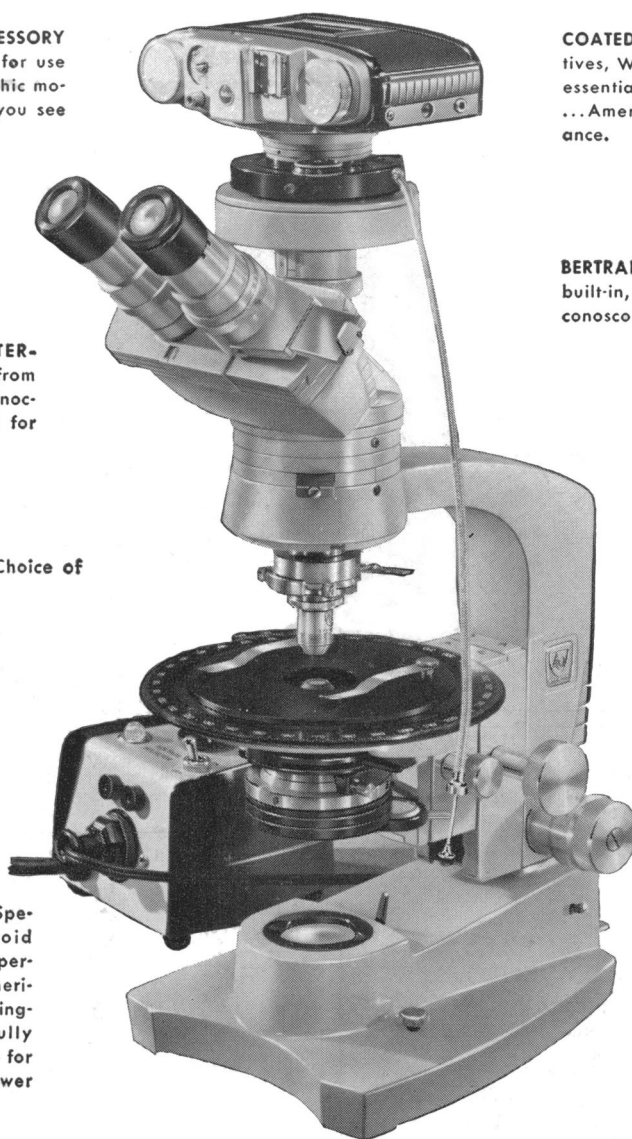
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