

of Medicine, Vanderbilt Univ., Nashville 5.)

18-21. American Astronomical Soc., Pittsburgh, Pa. (J. A. Hynek, Smithsonian Astrophysical Observatory, 60 Garden St., Cambridge 38, Mass.)

18-22. Association of American Geographers, Dallas, Tex. (A. C. Gerlach, Map Div., Library of Congress, Washington 25.)

18-22. European Soc. of Ophthalmology, 1st cong., Athens, Greece. (P. Velissaropoulos, c/o Ophthalmology Clinic, Faculty of Medicine, 26, rue de l'Université, Athens, Greece.)

19-21. Active Networks and Feedback Systems, 10th intern. symp., New York, N.Y. (H. J. Carlin, Microwave Research Inst., Polytechnic Inst. of Brooklyn, 55 Johnson St., Brooklyn 1, N.Y.)

19-21. American Soc. of Lubrication Engineers, annual, Cincinnati, Ohio. (C. L. Willey, ASLE, 84 E. Randolph St., Chicago, Ill.)

19-22. Metallurgy of Plutonium—session on nuclear fuels, intern. symp., Grenoble, France. (Société Française de Métallurgie, 25, rue de Clichy, Paris, France.)

20-21. Council on Medical Television, 2nd meeting, Bethesda, Md. (J. Mackenzie, Council on Medical Television, 33 E. 68 St., New York 21.)

20-22. Biological Waste Treatment, 3rd conf., New York, N.Y. (W. W. Eckenfelder, Dept. of Civil Engineering, Manhattan College, New York 71.)

20-22. Manned Space Stations Inst. of the Aeronautical Sciences symp., Los Angeles, Calif. (E. Levin, Rand Corp., 1700 Main St., Santa Monica, Calif.)

20-22. Medical Electronics, natl. conf., Houston, Tex. (K. O. Heintz, Humble Oil and Refining Co., Houston.)

20-22. Southwestern Inst. of Radio Engineers, 12th annual, Houston, Tex. (H. E. Childers, College of Medicine, Baylor Univ., Waco, Tex.)

20-23. National Council of Teachers of Mathematics, Ann Arbor, Mich. (M. H. Ahrendt, 1201 16 St., NW, Washington 6.)

20-24. Congress of Gastroenterology, 6th intern., Leyden and Noordwijk aan Zee, Netherlands. (C. Schreuder, 16, Lange Voorhout, The Hague, Netherlands.)

21-23. Association of Southeastern Biologists, New Orleans, La. (H. J. Humm, Dept. of Botany, Duke Univ., Durham, N.C.)

21-28. American Soc. of Tool Engineers, annual, Detroit, Mich. (H. E. Conrad, ASTE, 10700 Puritan Ave., Detroit 38.)

22-23. High-Temperature Resistance and Thermal Degradation of Polymers, symp., London, England. (Symposium Subcommittee, Plastics and Polymer Group, Soc. of Chemical Industry, 14 Belgrave Sq., London, S.W.1, England.)

24-28. American Ceramic Soc., annual, Philadelphia, Pa. (F. P. Reid, ACS, 4055 N. High St., Columbus 14, Ohio.)

25-27. American Proctologic Soc., Houston, Tex. (N. D. Nigro, 10 Peterboro, Detroit 1, Mich.)

25-27. Canadian Inst. of Mining and Metallurgy, 62nd annual, Toronto, Ontario, Canada. (Secretary-Treasurer, Room 906, Drummond Bldg., 1117 St. Catherine St., Montreal, Canada.)

(See issue of 19 February for comprehensive list)

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.

■ **HIGH-IMPEDANCE VOLTMETER** measures d-c or low-frequency a-c up to 250 volts in 11 ranges. Input impedance is said to be greater than 10^{17} ohms. Output impedance is less than 10 ohms. Voltage-following accuracy is said to be ± 0.02 percent at the low impedance output and better at higher impedance output, with over-all accuracy ± 2 percent. Accessories include an integrator for d-c analog signals, decade shunt, voltage divider for range extension, charge detector, regulated voltage supply, and precision current regulator. (Halex Inc., Dept. Sci398, 310 East Imperial Highway, El Segundo, Calif.)

■ **NETWORKS** for analog operational amplifiers are said to be held to total summing accuracy as high as ± 0.005 percent without trimming potentiometers or capacitors. According to the manufacturer, a series network with as many as 10 inputs for a computing amplifier operating at 400 cy/sec may be made with a total in-phase summing error of ± 0.01 percent and a total quadrature error of ± 0.02 percent. (Julie Research Laboratories, Inc., Dept. Sci403, 556 W. 168 St., New York 32, N.Y.)

■ **RADIOMETER** is designed for measurement of short pulses of very intense thermal radiation. Water cooling permits the instrument to be used for continuous measurements of the highest intensities currently produced in solar or arc furnaces. The effective area of 0.001 in.² permits exploration of flux distributions. Response time is 0.01 sec. (Arthur C. Ruge Associates Inc., Dept. Sci404, Hudson, N.H.)

■ **TAPE TENSIO METER** measures steady-state and transient tensions experienced by magnetic tape in tape recorder transports. Tension range is 0 to 8 lb. Useful dynamic range is said to exceed 60 db, and the instrument is said to respond to transients with rise time of 1 msec or less. Insertion of the tensiometer requires a clear area of $\frac{3}{4}$ by $\frac{3}{16}$ in. and a clearance of $\frac{1}{4}$ in. between the recorder deck and the tape edge. Both $\frac{1}{4}$ and $\frac{1}{2}$ in. tapes are accommodated. Output is amplitude modulation of a 2000 cy/sec carrier, the latter supplied by an external oscillator. Sensitivity is about 115 mv/oz with a built-in transistorized amplifier. Direct output is 1.3 mv/oz. (General Kinetics Inc., Dept. Sci409, 555 23rd St. S, Arlington 2, Va.)

■ **BLACK BODY**, model 403, is designed to emit black-body radiation over the temperature range 500° to 1000°K. The radiation source temperature is said to be maintained within $\pm 1^\circ$ K despite wide changes in ambient temperature, line voltage variations, transients, and tube aging, by a combination of vacuum-tube amplifier and thyatron circuitry in a power-proportioning temperature controller. (Infrared Standards Laboratory, Dept. Sci408, 10555 Magnolia Ave., Riverside, Calif.)

■ **AUTOMATIC TENSION CONTROL** for spooling and unspooling of very-fine-gage wire has a tension-control range of 1.5 to 140 gm with winding speeds from 0 to 1000 ft/min for a spool of 2-in. outside diameter. Spool sizes up to 4.5 in. in maximum diameter can be accommodated. Tension is sensed by a spring-controlled dancer arm. Motion of the arm regulates the voltage and phasing of a servomotor to correct changes. An automatic brake slows the mechanism in the event of filament breakage or power failure. (Diehl Manufacturing Co., Dept. Sci418, Somerville, N.J.)

■ **PULSE GENERATOR**, model PG-3, is a transistorized instrument that produces pulses with rise times said to be shorter than 0.4 nsec (10^{-9} sec). Repetition rate is variable from 20 to 300 pulses per second, fixed at 60 and 120 pulses per second, or externally controlled. Calibrated pulse widths are 1.7, 5, 10 and 20 nsec with other widths obtainable by use of added cable. Pulse amplitude is 0 to +100 volts, adjustable by a ten-turn potentiometer. (Lumatron Electronics, Inc., Dept. Sci410, 68 Urban Ave., Westbury, N.Y.)

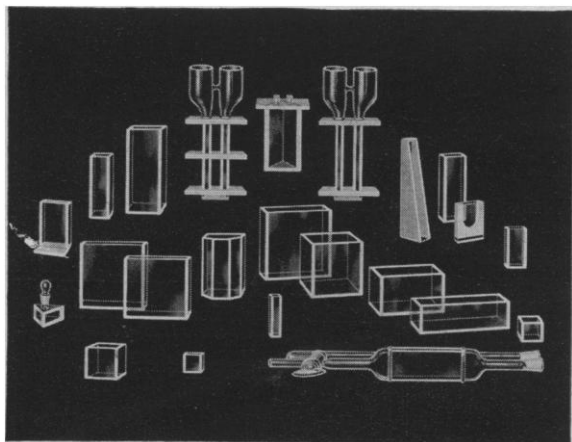
■ **RECORDING MICROAMMETER** has a basic range of 0 to 50 μ a d-c with input resistance approximately 200 ohm. Voltage ranges 0 to 10, 50, and 200 mv d-c are also provided. The instrument combines a magnetic amplifier operating on 120-volt, 60-cy/sec power with a permanent-magnet, moving-coil movement. Accuracy is said to be ± 2 percent. Chart speeds of $\frac{3}{4}$ in./hr through 12 in./min are standard in portable or permanently mounted models. (Esterline-Angus Co., Dept. Sci412, Box 596, Indianapolis 6, Ind.)

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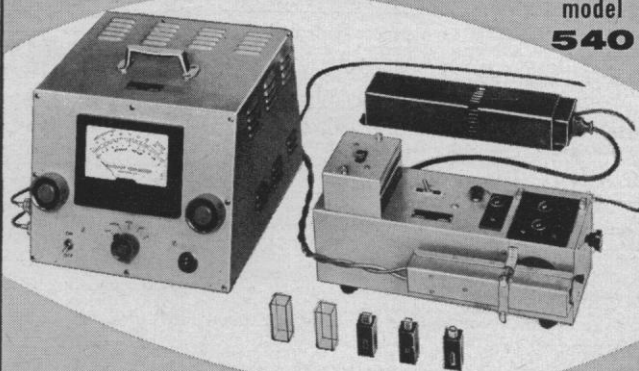
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Biophysicist-Electrophysiologist. For research on electrophysiology of vision in large midwestern university. Ph.D. or equivalent. Experience with electrophysiological equipment required. Eye experience not necessary. Salary from \$7500, depending on training and experience. Box 56, SCIENCE. 3/18, 25

Medical Technician, male or female, B.S. preferred, research laboratory. Paraffin sectioning. H and E plus special staining. Some experience required. Dr. J. Christensen, St. Barnabas Medical Center, High St., Newark, N.J. 3/11, 18

Microbiologist. M.S. or Ph.D. for chief post in a three-man laboratory that services the hospital and Isaac Albert Research Institute, research potential, new facilities, living accommodations, 30 minutes from New York City, good salary plus grant supplementations. Personnel Department, Jewish Chronic Disease Hospital, East 49 Street, Brooklyn 3, N.Y. 3/18, 25

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Instructorships (3) at West Coast urban university—teaching in general biology, general zoology, general botany, advanced invertebrate zoology, and plant physiology. Research field open, but broad biological background essential and marine interest somewhat preferred. Box 60, SCIENCE. 3/18

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Pharmacologist, Ph.D. or equivalent, to develop and supervise expanding research program in medicinal. Excellent opportunity, salary commensurate with education and experience. Liberal benefit program. Lloyd Brothers Laboratories, Cincinnati 30, Ohio. X

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Postdoctoral Traineeships in Metabolism and Nutrition. Postdoctoral traineeship in the field of metabolism and clinical nutrition are available in the Department of Biochemistry and Nutrition, University of Pittsburgh. The program is primarily for physicians who have had a minimum of an internship and who are interested in clinical investigation. The stipends begin at \$5500 per annum, and appointments may be made for a period of 1 to 3 years beginning 1 July 1960. Please apply to Dr. Robert E. Olson, Professor and Head, Department of Biochemistry and Nutrition, University of Pittsburgh, Pittsburgh 13, Pa. 3/11

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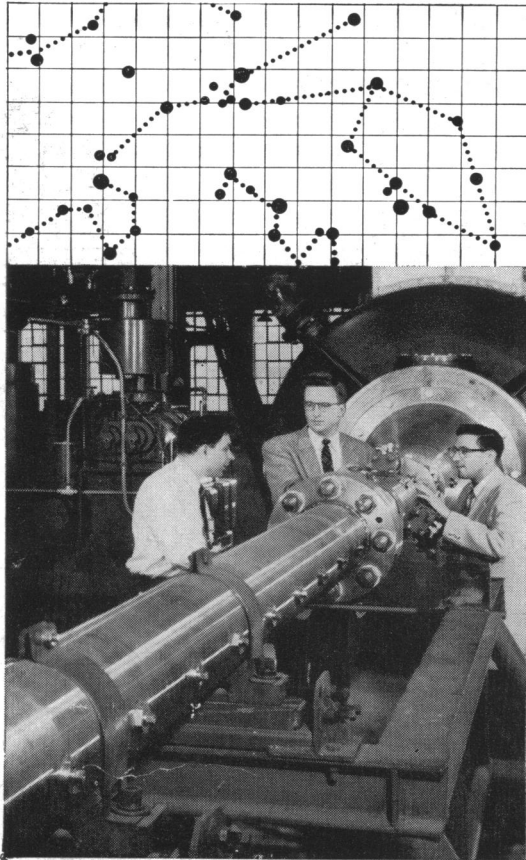
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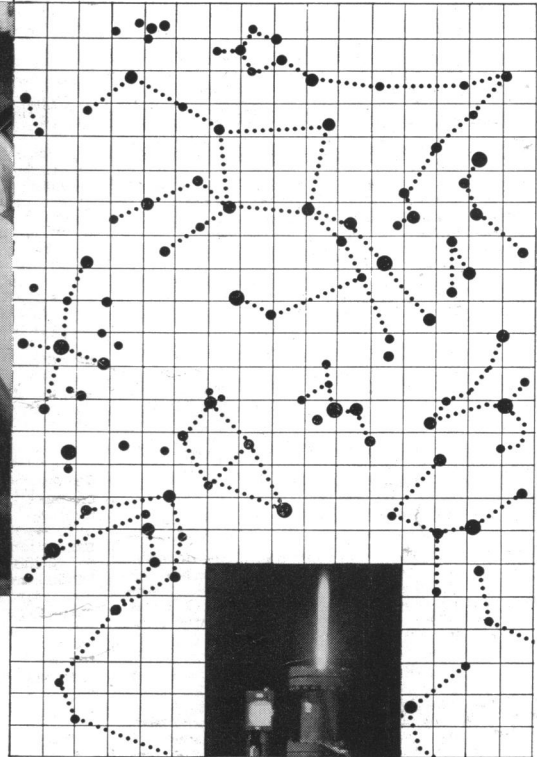
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Advanced Communications To work primarily on problems of interaction of electro-magnetic waves with partially ionized high-temperature gases. A PhD degree with general physics background and special competence in electro-magnetic theory is essential. An appreciation for the techniques, problems and results of aerodynamics and thermodynamics is also desirable.

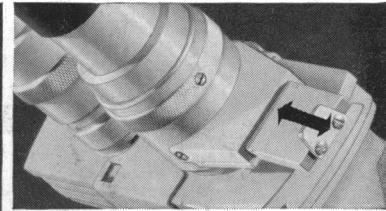
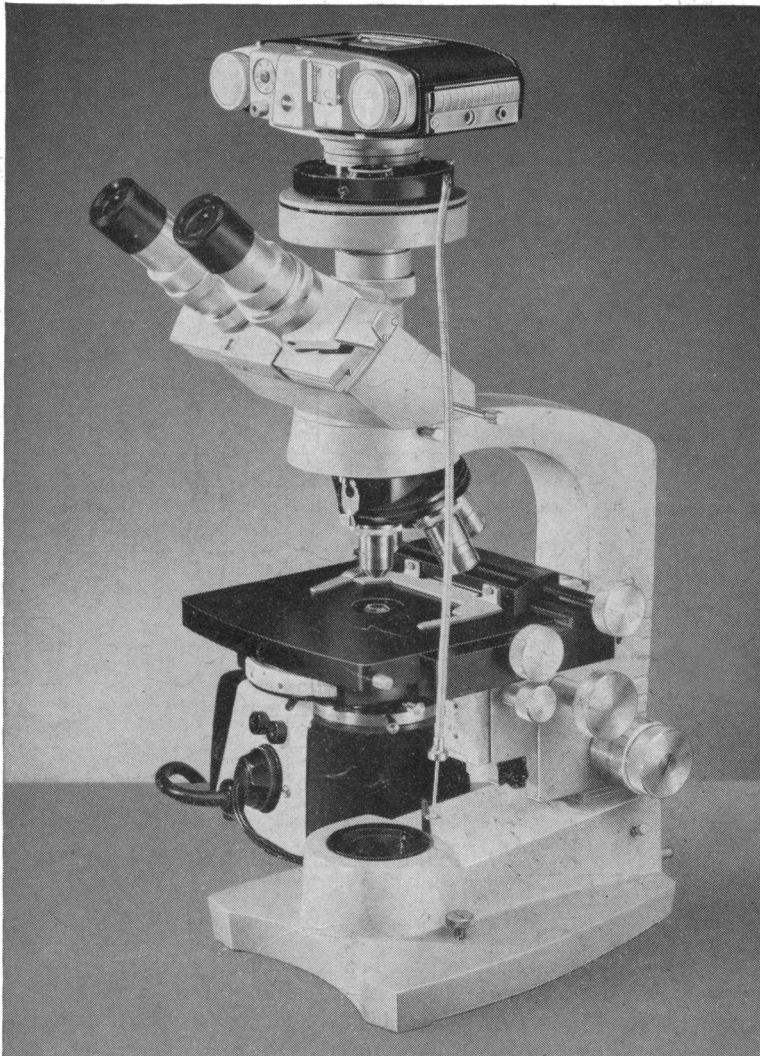
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Missile and Space Vehicle Department

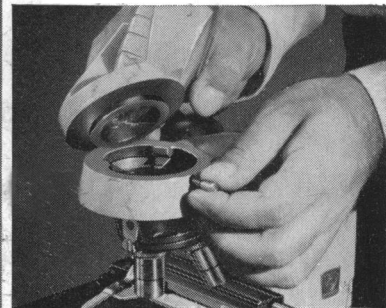
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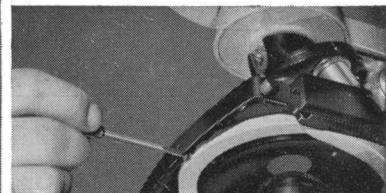
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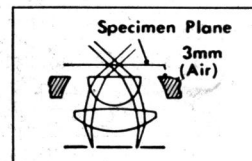
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