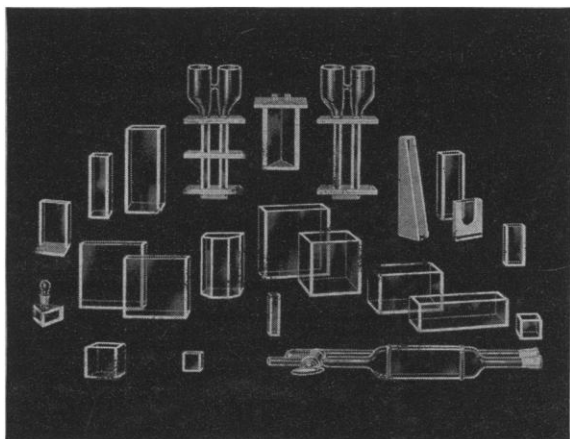


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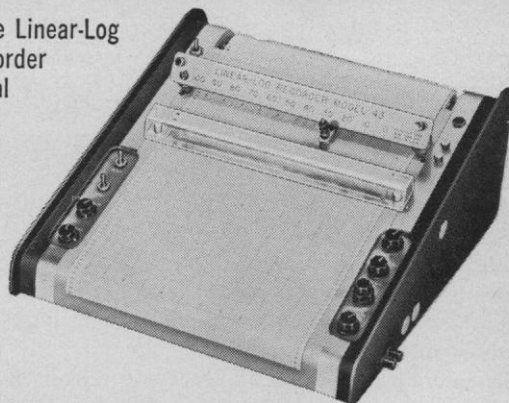


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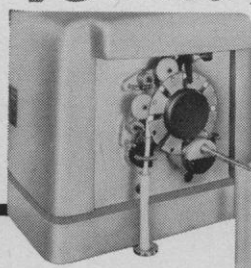
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The Harrison Pipette Plugger eliminates the slow, tedious job of hand stuffing cotton in pipettes. An experienced operator can plug pipettes up to 2400 per hour, with each cotton plug absolutely uniform in size. Cotton plugging speeds adjustable to 22, 30 or 40 pipettes per minute. The Harrison Pipette Plugger can be used over a full range of standardized cotton plugging type pipettes without adjustment, including the following pipettes: Bellco V.I.P.: 12-334, Corning 7086, and Kimble 37034A. Other pipettes having identical top dimensions and tolerances as these will also be satisfactory. However, conventional pipettes can be reworked and shaped to the cotton plugging top dimensions . . . if they are of borosilicate glass.

The Harrison Pipette Plugger is mounted on a sanitary work surface featuring a semi-enclosed base. A shelf beneath the table holds the cotton roving, which is fed through a special opening in the table.

WRITE FOR BULLETIN NO. P-50-15

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New Products

Nuclear magnetic-resonance spectrometer is designed for qualitative and quantitative proton analysis. The spectrometer control console includes the radio-frequency transmitter and receiver that excite the sample and receive the resulting nuclear magnetic-resonance signal. The console also includes components of a field- and frequency-control circuit that maintains the proper relationship between the magnetic field and the effective transmitter frequency in spite of variations in magnetic field strength. The control circuit utilizes a reference sample incorporated in the feedback loop of the excitation oscillator. The reference sample and the analytical sample are located adjacent to each other and are excited by the same radio-frequency and modulation fields. The magnet system includes a 6-in., 14,092-gauss magnet with a water-cooled solid-state power supply. Magnetic-field homogeneity control coils are provided as well as means for spinning the analytical sample in the probe. An integrator included in the system makes available both qualitative and quantitative information. The instrument's flat-bed recorder allows recording of either the spectrum or its integral on precalibrated chart paper.

Manufacturer's specifications of the spectrometer include: operating frequency, 60 Mcy/sec; radio-frequency field at the sample, approximately 0.02 to 2.0 mgauss; typical sample volume, 0.2 to 0.4 cm³; sample-tube outside diameters, 5 mm; resolution, defined as line width at half-maximum amplitude, 0.6 cy/sec; integral accuracy, ± 2 percent when integrating spectra; maximum rate of change of field homogeneity during normal operation, 1 cy/sec per hour. (Varian Associates, Dept. Sci258, 611 Hansen Way, Palo Alto, Calif.)

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.

Probe positioning system that may be used to position a probe in an electrolytic tank is similar in operation to an x-y recorder. The system operates from a voltage input to position the probe head anywhere within a 42- by 58-in. area. The head provides vertical and horizontal mounting surfaces useful for mounting probes or other special devices weighing up to 30 lb. Traverse speeds up to 6 in./sec are obtained with a maximum positioning error said to be 0.05 in. Servo amplifiers and power supplies are separate from the main frame and are suitable for rack mounting. (Benson-Lehner Corp., Dept. Sci.254, 1860 Franklin St., Santa Monica, Calif.)

Travel indicator measures motion by means of a gage wheel contacting a way or machined surface. Motion is transmitted through two trains to a dial indicator reading in thousandths. A dial knob graduated in inches and tenths of an inch gives a continuous record for up to 6 in. of travel, repeating thereafter on any length of traverse. A slip clutch permits zero adjustment without disengaging the gage wheel. Accuracy is said to be 0.001 in. in 6 in. of travel. (Southwestern Industries, Inc., Dept. Sci256, 5880 Centinela Ave., Los Angeles 45, Calif.)

Carbon-hydrogen analyzer is an automatic apparatus for application of the Pregl method of analysis. The instrument will analyze substances pyrolyzing at temperatures under 1100°C. For routine analysis, results are said to correspond to theory within ± 0.2 percent of carbon and hydrogen. Usual sample size is 5 to 50 mg. The instrument's complete cycle requires 9 min. Furnace controls permit selection of combustion temperature from 700° to 1000°C. An auxiliary timer permits a 5-min extension of combustion period for difficult materials. (Coleman Instruments Inc., Dept. Sci275, 42 Madison St., Maywood, Ill.)

Frequency-deviation meter is said to be capable of measuring and recording frequency deviation of one part in 10¹⁰ with full-scale deflection for a frequency difference of one part in 10⁶. The instrument consists of a frequency comparator and a recorder. The comparator compares the output of a 0.1-, 1.0-, 2.5-, or 5.0-Mcy/sec secondary frequency standard with the output of primary frequency standards. Indication of frequency deviation is provided by observation of Lissajous figures. For recording purposes a d-c output proportional to frequency deviation and a counter output for direct reading are provided. The comparator contains 16 transistorized modules including a regulated power supply. The recorder consists of a zero-center galvanometer, a recording-pen system, a chart carriage, paper drive and takeup motors. Paper speeds are 12, 6, 3, 1.5, 0.75 in./hr or in./min. (Aircraft Radio Corp., Dept. Sci273, Boonton, N.J.)

Electromagnet provides a field intensity of 20,000 gauss over a 64-in. area with 1.5-in. gap. Standard pole-face geometry is a 4- by 16-in. rectangle. Pole faces are soft steel or Inconel. Magnet coils are wound with copper ribbon insulated with class-B materials. The complete magnet assembly measures 46 by 38.5 by 42 in. and weighs 4 tons. (MHD Research, Inc., Dept. Sci266, P.O. Box 1815, Newport Beach, Calif.)

Magnetic-drum memory can be read while the drum is stationary and while it is rotating. Size of the drum varies with the quantity of information to be recorded. A ten-channel, 2000-bit drum measures 26 by 14 in., including heads and terminal board. Output from the drum has sufficient power to eliminate the need for sensitive amplifiers. Output into 1000 ohms is 1.5 volts d-c for a "one" reading and less than 30 mv for a "zero" reading. Into a cold-cathode matrix, drums may have an output of 65 volts a-c for "one" and less than 2 volts for "zero." The memory device is designed especially for machine-tool control. For this application, coordinates for each cutting operation are recorded as a series of parallel binary code words on sequential steps of the drum. (Consolidated Controls Corp., Dept. Sci264, Bethel, Conn.)

JOSHUA STERN
National Bureau of Standards,
Washington, D.C.

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The present salary range is £A2,950-£3,250 (£3050-£3350 for a medically qualified Reader). Initial salary will be determined according to qualifications and experience. Superannuation is on the F.S.S.U. basis.

Further particulars and conditions of appointment may be obtained from the Registrar, University of Melbourne, Parkville, N.Z., Victoria, Australia, and applications should reach him by October 15, 1961.

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Applications should be addressed to The President, Professor A. C. Frazer, M.D., D.Sc., F.R.C.P., at the Laboratories of the B.F.M.I.R.A., Randalls Road, Leatherhead, Surrey, England, and should arrive not later than Friday, 1st September, 1961.

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POSITIONS OPEN

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Box 161, SCIENCE

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Research and development on biological effects of ionizing radiation for application in long range biological control program. Knowledge of dosimetry required. Background in entomology and/or invertebrate zoology highly desirable. Write Director, Instituto Venezolano de Investigaciones Cientificas, Apartado 1827, Caracas-Venezuela.

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Candidates with background and experience in Marine Biology will receive preference. Ph.D. or equivalent essential. Duties beginning September 1961 to include teaching and research. The starting salary will be based on qualifications and experience.

Applications accompanied by complete curriculum vitae and the names of three references should be addressed to the Head, Department of Biology, Memorial University of Newfoundland.

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Program Content

1. The two-session AAAS General Sessions, "Moving Frontiers of Science," Part I—Speakers: Howard A. Meyerhoff and Arthur R. von Hippel; Harrison Brown, presiding. Part II—Speakers: Halton C. Arp and E. W. Fager; Harrison Brown, presiding.
2. The 29th John Wesley Powell Memorial Lecture. Speaker: Glenn T. Seaborg; Paul M. Gross, presiding.
3. On "AAAS Day," the four broad, interdisciplinary symposia—Physics of the Upper Atmosphere; Geochemical Evolution—The First Five Billion Years; Existing Levels of Radioactivity in Man and His Environment; and Water and Climate—arranged by AAAS Sections jointly.
4. The Special Sessions: AAAS Presidential Address and Reception; Joint Address of Sigma Xi and Phi Beta Kappa by Harrison Brown; the Tau Beta Pi Address; National Geographic Society Illustrated Lecture; and the second George Sarton Memorial Lecture.
5. The programs of all 18 AAAS Sections (specialized symposia and contributed papers).
6. The programs of the national meetings of the American Astronomical Society, American Society of Criminology, American Nature Study Society, American Society of Naturalists, American Society of Zoologists, Beta Beta Beta Biological Society, Biometric Society (W.N.A.R.), National Association of Biology Teachers, Scientific Research Society of America, Society for General Systems Research, Society of Protozoologists, Society of Systematic Zoology, and the Society of the Sigma Xi.
7. The multi-sessioned special programs of the American Association of Clinical Chemists, American Astronautical Society, American Meteorological Society, American Physiological Society, American Psychiatric Association, Association of American Geographers, Ecological Society of America, National Science Teachers Association, National Speleological Society—and still others, a total of some 70 to 80 participating organizations.
8. The sessions of the Academy Conference, the Conference on Scientific Communication, and the Conference on Scientific Manpower.
9. The sessions of the AAAS Cooperative Committee on the Teaching of Science and Mathematics, of the AAAS Committee on Science in the Promotion of Human Welfare, and of the Committee on Public Understanding of Science.
10. Titles of the latest foreign and domestic scientific films to be shown in the AAAS Science Theatre.
11. Exhibitors in the 1961 Annual Exposition of Science and Industry and descriptions of their exhibits.

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