

Forthcoming Events

July

3-5. American Assoc. of Colleges of Pharmacy, Boulder, Colo. (G. L. Webster, College of Pharmacy, Univ. of Illinois, Chicago 12)

4-8. Polarization Phenomena of Nucleons, symp., Basle, Switzerland. (K. P. Meyer, Physikalisches Institut der Universität Basle, Klingelbergstr. 82, Basle)

5-9. Goiter Conf., 4th intern., London, England. (J. C. McClintock, 149½ Washington Ave., Albany 10, N.Y.)

6-15. Entomological Conf., 7th Commonwealth, London, England. (Commonwealth Inst. of Entomology, 56 Queen's Gate, London, S.W.7)

10-14. Pan American Tuberculosis Cong., 12th, Bahia, Brazil. (F. D. Gómez, 26, de Marzo, 1065, Montevideo, Uruguay)

11-12. Response of Materials to High Velocity Deformation, conf., Estes Park, Colo. (AIME, 29 W. 39 St., New York 18)

11-15. British Dental Assoc., annual, Edinburgh, Scotland. (Secretary, British Dental Assoc., 13 Hill St., Berkeley Sq., London, W.1, England)

11-15. Royal Medico-Physiological Assoc., annual, London, England. (A. B. Monro, 11 Chandos St., Cavendish Sq., London, W.1)

11-16. Inter-American Nuclear Energy Commission, 2nd meeting, Petropolis, Rio de Janeiro, Brazil. (J. D. Perkinson, Jr., Inter-American Nuclear Energy Commis-

sion, c/o Pan American Union, Washington 6)

11-18. Earthquake Engineering, 2nd world conf., Tokyo and Kyoto, Japan. (K. Muto, Organizing Committee, 2nd World Conf. on Earthquake Engineering, Science Council of Japan, Ueno Park, Taito-ku, Tokyo)

11-22. Grassland Cong., 8th intern., Reading, Berks, England. (British Grassland Soc., Grassland Research Inst., Hurley, North Maidenhead, Berks)

15-22. Mycology, 6th Commonwealth conf., London, England. (Commonwealth Mycological Inst., Ferry Lane, Kew, Surrey, England)

18-22. International Conf. on Congenital Malformations, London, England. (S. E. Henwood, Intern. Medical Congress, Ltd., 120 Broadway, New York 5)

18-22. Peaceful Application of Nuclear Energy, 3rd Inter-American symp., Petropolis, Rio de Janeiro, Brazil. (J. D. Perkinson, Jr., Inter-American Nuclear Energy Commission, c/o Pan American Union, Washington 6)

18-23. Endocrinology, 1st intern. cong., Copenhagen, Denmark. (G. Pincus, 1st Intern. Cong. of Endocrinology, Worcester Foundation, Shrewsbury, Mass.)

18-25. French Assoc. for the Advancement of Science, 79th cong., Grenoble. (Association Française pour l'Avancement des Sciences, 28 rue Serpente, Paris 6°)

19-22. International Conf. on Scientific Problems of Crop Protection, Budapest, Hungary. (Z. Király, Research Inst. for Plant Protection, Budapest)

21-27. Medical Electronics, 3rd intern.

conf., Olympia, London, England. (Secretary, Institution of Electrical Engineers, Savoy Pl., London, W.C.2)

23-28. Otolaryngology, 7th intern. cong., Paris, France. (H. Guillon, 6, avenue MacMahon, Paris, 17°)

24-19. Modern Physical Theories and Associated Mathematical Developments, Boulder, Colo. (K. O. Friedrichs, New York Univ., 25 Waverly Pl., New York)

25-6. International Assoc. of Physical Oceanography, 13th general assembly, Helsinki, Finland. (B. Kullenberg, c/o Oceanografiska Institutet, P.O. Box 1038, Göteborg 4, Sweden)

26-28. Poliomyelitis, 5th intern. conf., Copenhagen, Denmark. (S. E. Henwood, International Poliomyelitis Congress, 120 Broadway, New York 5)

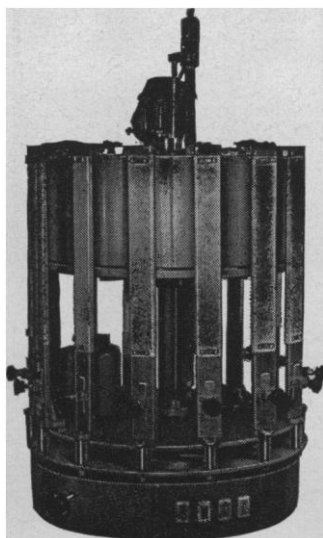
27-12. Mathematical Statistics and Probability, symp., Berkeley, Calif. (A. P. Burroughs, Air Force Office of Scientific Research, Research Information Office, AFOSR/USAF, Washington 25)

28-29. Computers and Data Processing, 7th annual symp., Estes Park, Colo. (W. H. Eichelberger, Denver Research Inst. Univ. of Denver, Denver 10, Colo.)

30-6. Institute on Religion in an Age of Science, 7th annual conf., Star Island, N.H. (R. Burhoe, American Acad. of Arts and Sciences, 280 Newton St., Brookline 46, Mass.)

31-5. Alcohol and Alcoholism, 26th intern. cong., Stockholm, Sweden. (A. Tongue, Bureau International contre l'Alcoolisme, Case Gare 49, Lausanne, Switzerland)

(See issue of 20 May for comprehensive list)

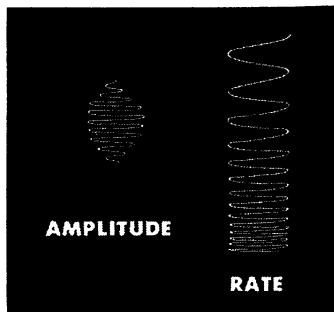


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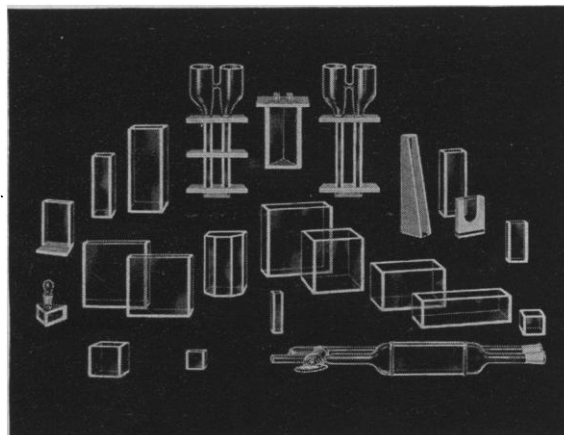


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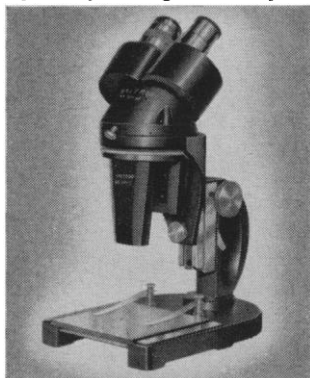
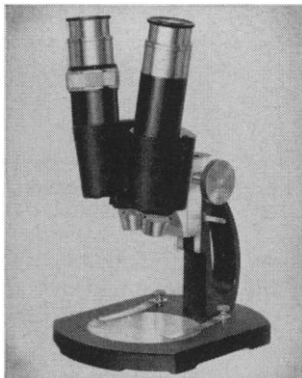
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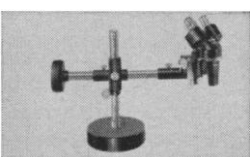
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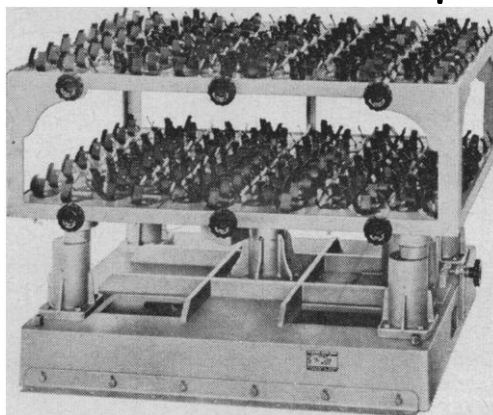
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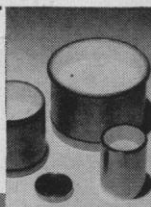
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New Products

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.

■ **SHAFT-ANGLE ENCODER** gives angular-position data in 17-digit cyclic-binary code with accuracy said to be ± 1 digit. The encoder consists of a glass disk coded by opaque and transparent segments. A flash lamp illuminates a radius of the disk for photoelectric reading. The 10-in. diameter unit includes 17 transistorized amplifier channels and power supplies. Parallel output is standard but serial output can be provided. (Wayne-George Corp., Dept. Sci576, 588 Commonwealth Ave., Boston 10.)

■ **RADIOLOGICAL TEST SUBJECTS** are plastic man-equivalent stand-ins that duplicate body reactions. An emitter model and an absorber model are both equivalent to an average man in size and contour. They are made of radiolucent shells and filled with a solution having the radiation-interaction properties of human soft tissues. The absorption model is equipped with a skeleton and a system of parts and ducts for insertion of dosimeters within the long bones and spinal column and into most soft-tissue regions. The emitter or calibration model does not contain a skeleton but is fitted with any specified combination of organs. Each organ may be loaded separately with radioactive materials, and the body as a whole may be given a separate generalized burden. (Atomic Accessories Inc., Dept. Sci578, 244-02 Jamaica Ave., Bellerose 26, N.Y.)

■ **GAS-SAMPLING VALVES** for chromatography applications are six-way types designed for injection of precise volumes. Holdup volumes are said to be less than 0.1 ml. Five models available include one heated type that allows injection of compounds of boiling points to 250°C. (Wilkins Instrument & Research Inc., Dept. Sci584, P.O. Box 313, Walnut Creek, Calif.)

■ **WATTMETER** combines a Hall-effect device with a contact-making D'Arsonval movement. The Hall-effect solid-state device furnishes a voltage output proportional to the power in a load circuit. This voltage is fed into a meter-relay movement calibrated directly for power measurement. Full-scale sensitivity of 500 mw is available in standard instruments with 100-mw sensitivity said to be possible. Both d-c models and a-c models for frequencies up to 1000 cy/sec can be supplied. (Assembly Products, Inc., Dept. Sci585, Chesterland, Ohio.)

■ **TEMPERATURE CONTROL CHAMBER** is designed to make possible tensile and compressional tests at a temperature range from -95° to $+1000^{\circ}$ F. When used with the manufacturer's tensile testing instruments, the chamber permits the use of most normal jaws and accommodates 10-in. sample with up to 80 percent rupture extension. Temperature constancy is said to range from $\pm 1^{\circ}$ to $\pm 2^{\circ}$ F over the entire range. Working space dimensions are 12 by 9.5 by 26 in. (Custom Scientific Instruments Inc., Dept. Sci588, Kearny, N.J.)

■ **BERYLLIUM OXIDE CERAMIC TUBING** is available in lengths to 21 in. from stock and to 24 in. on special order. Standard inside diameters are 5 mm, and $\frac{1}{4}$, $\frac{3}{8}$, and $\frac{7}{16}$ in. Tubes are supplied with both ends or only one end open. The tubing is said to be essentially gas tight, and melting point is given as 4650° F. (National Beryllia Corp., Dept. Sci582, 4501 Dell Ave., North Bergen, N.J.)

■ **CODE CONVERTER** is a solid-state device that will translate up to 14 bits in Gray code to ordinary binary code, simultaneously providing the binary complement as well. The encoder output is filtered and clipped to eliminate brush-bounce noise. Dimensions are $4\frac{1}{4}$ by $6\frac{3}{4}$ by $6\frac{1}{4}$ in. (Datex Corporation, Dept. Sci583, 1307 S. Myrtle Ave., Monrovia, Calif.)

■ **VACUUM CALIBRATION TEST BENCH** consists of a 2-in. high-vacuum pumping system with air-drying column, pressure-regulating needle valve, liquid-nitrogen traps, a vertical manifold with individually valved parts, a three-range McLeod gage with CO_2 -driven mercury system, and a precision manometer. The manometer covers pressures from atmospheric to 5 mm Hg. The McLeod gage reads pressures from 17 mm Hg to 0.3μ . Accuracy of the latter is said to be ± 1 percent of reading. (NRC Equipment Corp., Dept. Sci587, 160 Charlemont St., Newton 61, Mass.)

■ **INORGANIC INSULATION PAPERS** are prepared from synthetic mica. Three forms are available. One is a 100-percent synthetic mica paper; the other two contain fibers. Thickness presently available is 5 mils. Density may vary from 0.6 to 1.7 gm/cm³. Melting point is 1900° F if heated in a closed system, but the material converts to a higher-melting ceramic body when heated in an open system. Infrared transmission is less than 3 percent from 0 to 15μ for a 7-mil sheet. Thermal conductivity may be 0.3 to 1.5 Btu in./ft² hr $^{\circ}$ F. (Minnesota Mining and Manufacturing Co., Dept. Sci580, St. Paul 6, Minn.)

JOSHUA STERN

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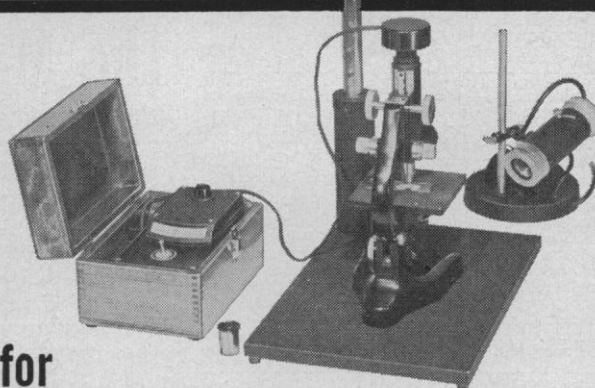


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Washington 5, D.C.

POSITIONS WANTED

Agricultural Chemical Engineer, Belgian university, age 31. Experience: 2 years in qualitative analytical chemistry, plus 5 years in planning and interpreting hundreds of fertilizer experiments on various crops in Belgian Congo (for a scientific institute). Knowledge of French, perfect; of English, German and Dutch, good; of Russian and Spanish, poor. Wants position in university or industry in U.S., preferably in South. Box 134, **SCIENCE**. X

Plant Genetics, June Ph.D. Wants research and/or teaching position. Prefer West Coast. Box 127, **SCIENCE**. X

POSITIONS WANTED

Fermentologist, Ph.D., over 60. Vast experience yeast, fungal bacterial fermentations; research and production of antibiotics, glycerol acids, enzymes; publications, patents; fluent German, French; library research. Box 126, **SCIENCE**. 6/10

Pharmacologist, Ph.D., 10 years of college teaching; 10 years of industrial pharmaceutical research. Desires academic, industrial, or research position. Box 132, **SCIENCE**. 6/17

POSITIONS OPEN

Biochemist, Ph.D., full-time investigation of fundamental aspects of experimental peritonitis plus independent research. Joint academic appointment. Salary dependent upon professional experience. Department of Surgery, Louisiana State University School of Medicine, New Orleans, La. 6/10, 17

EXPERIMENTAL BIOLOGIST

Ph.D. or equivalent to work in experimental pathology department. Knowledge of microscopic anatomy and experimental therapeutics desirable. Research opportunity. Staff addition. Industrial pharmaceutical research. Northeastern United States.

Box 129, **SCIENCE**

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M.S. in field of immunology with good knowledge of protein chemistry & immunohematology to work in manufacturing, performing a liaison function with research. Broad knowledge of antigen-antibody reactions with reference to blood group serology required.

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Route 202

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Clinical Pathologist to supervise clinical laboratories and teach some aspects of clinical laboratory medicine in school veterinary medicine. Strong biochemical background desirable. Research opportunities available. Rank and salary open. Write to Chairman, Department of Applied Veterinary Medical Sciences, School of Veterinary Medicine, University of Pennsylvania, Philadelphia 4, Pa. X

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Immediate opening for woman with academic training in organic chemistry. Foreign languages desirable. To assist in accumulation of scientific data for *Merck Index*. Duties include literature searching, naming chemical compounds, calculating molecular weights and percentage compositions, proofreading. Send résumé to

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Rahway, New Jersey

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Editors. Expanding biological information service has several editorial openings for individuals who combine thorough training in one or more of the biological sciences with interest and skill in use of the English language. Former editorial experience not essential. Knowledge of one or more foreign languages desirable. Generous annual and sick leave and retirement plan. Rank and salary related to training and/or experience. Box 133, SCIENCE. X

Head (with rank of professor) of the Department of Electronics in the Weizmann Institute of Science, Rehovoth, Israel, to direct a program of fundamental and applied research. Please send résumés to the Academic Secretary. X

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VIROLOGY TECHNICIAN

Expanding Philadelphia drug company has opening for a person with 2 years' college (science course background). Cannot consider college grads. Applicants should have academic concentration in CHEMISTRY with some biology. Work in connection with interesting research and development projects. Liberal benefits program includes hospitalization, educational assistance, and 35-hr. week. Salary commensurate with experience. State age in resume. Write Box 131, SCIENCE.

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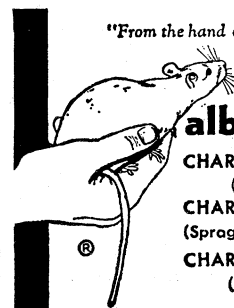
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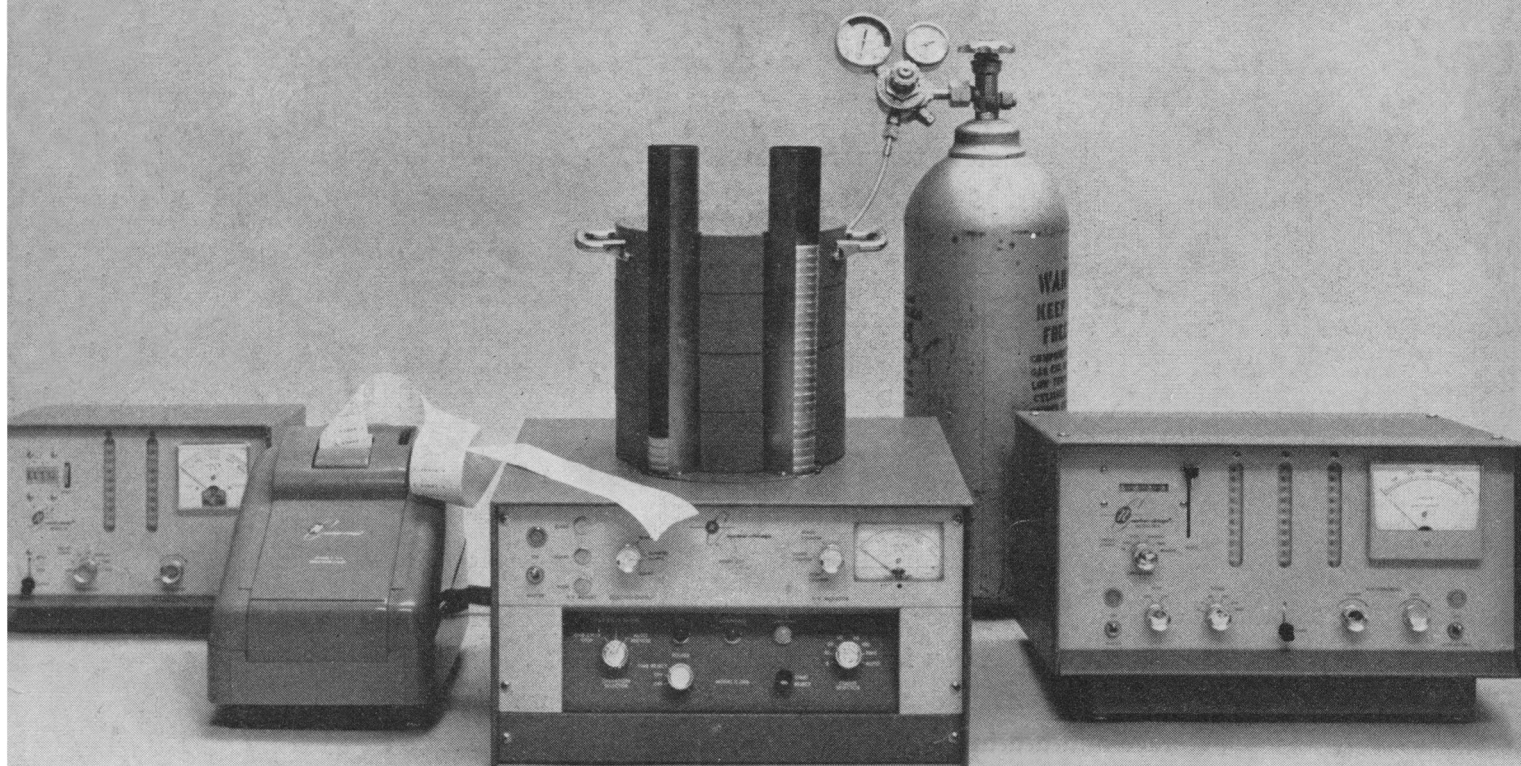
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