cer, Internatl. conf., Glasgow, Scotland. (A. P. M. Forrest, Dept. of Surgery, Western Infirmary, Glasgow, W.1.)

8–12. Inter-American Cong. of Philosophy, 5th, Washington, D.C. (R. M. Chisholm, Brown Univ., Providence, R.I.)

8–12. Poliomyelitis Conf., 4th internatl., Geneva, Switzerland. (Secretariat, 4th International Poliomyelitis Conference, Hotel du Rhone, Geneva.)

9–11. Biological Symp., 8th annual, Univ. of Michigan, Ann Arbor. (B. L. Baker, Dept. of Anatomy, Univ. of Michigan, Ann Arbor.)

9–13. European Molecular Spectroscopy Conf., Freiburg, Breisgau, Germany. (R. Mecke, Dept. of Physical Chemistry, Univ. of Freiburg, Freiburg.)

9–13. International Cong. for the Study of Social Insects, Paris, France. (G. Richard, International Union for the Study of Social Insects, Faculty of Sciences, University of Rennes, Rennes, France.)

10–12. Thermodynamic and Transport Properties of Fluids, conf., IUPAC, London, England. (Institution of Mechanical Engineers, 1, Birdcage Walk, Westminster, London, S.W. 1.)

10–17. International Union of Crystallography, 4th genl. assembly, Montreal, Canada. (G. A. Jeffrey, Chemistry Dept., Univ. of Pittsburgh, Pittsburgh 13, Pa.)

11–13. Applied Cytology, European Symp., Brussels, Belgium. (Secretary, Comm. on International Cong., American Cancer Soc., 521 W. 57 St., New York 19, N.Y.)

14–19. International Assoc. of Gerontology, Merano, Italy. (A. I. Lansing, Dept. of Anatomy, Univ. of Pittsburgh, Pittsburgh 13, Pa.)

14–20. Clinical Pathology, 4th internatl. cong., Brussels, Belgium. (M. Welsch, Service de Bacteriologie et de Parasitologie, Université de Liége, Blvd. de la Constitution, Liége, Belgium.)

15–18. Biochemistry of Lipids, International Colloquium, Oxford, England. (Dr. Sinclair, Laboratory of Human Nutrition, Oxford.)

15–19. Institute on College Administration, annual, Ann Arbor, Mich. (A. D. Henderson, 2442 U.E.S., Univ. of Michigan, Ann Arbor.)

16–19. American Malacological Union, annual, New Haven, Conn. (Miss M. C. Teskey, P.O. Box 238, Marinette, Wis.)

16–24. International Cong. for Pure and Applied Chemistry, 16th, Paris, France (R. Morf, Secy. Genl., IUPAC, Sandoz, S.A., Basel, Switzerland.)

20–21. Medical-Sociological Aspects of Senile Nervous Diseases, internatl. symp., Venice, Italy. (S. N. Feingold, Jewish Vocational Service of Greater Boston, 70 Franklin St., Boston 10, Mass.)

21–28. Neurological Sciences, 1st internatl. cong., Brussels, Belgium. (P. Bailey, National Institutes of Health, Bethesda 14, Md.)

23–24. Modern Electrochemical Methods of Analysis, Internatl. symp., Paris, France. (G. Charles, Ecole Superieure de Physique et de Chimie, 10, rue Vauquelin, Paris 5e.)

25–26. Structure Properties Relationships of Polymers (IUPAC), Paris, France. (International Union of Pure and Applied Chemistry, 4, Avenue de l'Observatoire, Paris 6e.)

25–29. Protein Chemistry Symp., IUPAC, Paris, France. (J. Roche, College de France, Place Marcellin Berthelot, Paris 5e.)

26–27. Experimental Psychology and Animal Behavior Section of International Union of Biology, Brussels, Belgium. (H. S. Langfeld, Dept. of Psychology, Princeton Univ., Princeton, N.J.)

26–27. Linguistic Soc. of America, Ann Arbor, Mich. (A. A. Hill, Box 7790, University Station, Austin 12, Tex.)

26–27. Military Psychology, internatl. symp., Brussels, Belgium. (National Academy of Sciences, 2101 Constitution Ave., NW, Washington 25.)

26–1. International Congress on Nutrition, 4th, Paris, France. (Quatrième Congrès International de Nutrition, CNERNA, 71, boulevard Péreire, Paris 17e.)

28–1. Psychoanalysis, 20th internatl. cong., Paris, France. (Dr. Nacht, 187, rue Saint-Jacques, Paris 5.)

28–3. Psychology, 15th internatl. cong., Brussels, Belgium. (L. Delys, 296, avenue des Sept Bonniers, Forest-Bruxelles.)

31–5. International Assoc. for Hydraulic Research, Lisbon, Portugal. (M. Coelho Mendes da Rocha, Laboratorio Nacional de Engenharia Civil, Avenida do Brasil, Lisbon.)

31–6. Dermatology, 11th internatl. cong., Stockholm, Sweden. (C. H. Floden, Hudkliniken, Karolinska Sjukhuset, Stockholm 60.)

(*See issue of 17 May for comprehensive list*)

EQUIPMENT NEWS

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Science *does not assume responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to* Science, *Room 740, 11 W. 42 St., New York 36, N.Y. Include the name(s) of the manufacturer(s) and the department number(s).*

■ FILTRATION UNITS for removal of minute particles from water have capacities ranging from 3 to 10 gal/min. The fineness of particle removal ranges from 0.1 to 25 μ. (Heico Inc., Dept. S354)

■ SWEEPING OSCILLATOR covers the range of frequencies from 1000 to 15,000 Mcy/sec with a power output of from 10 mw to 1 w by means of seven interchangeable units. Used in conjunction with the manufacturer's rapid-scan Ratioscope, the oscillator makes possible direct and instantaneous measurements of reflection and transmission coefficients, directly viewable on an oscilloscope, eliminating the need for point-by-point measurements or for maintaining a constant power input to the device under test. (Polarad Electronics Corp., Dept. S351)

■ MAGNET WIRE coated with Teflon is being offered in a kit for research and development use. The kit contains an assortment of 12 spools of wire in gage sizes 20 through 42 A.W.G. (Tensolite Specialties Inc., Dept. S365)

■ MAGNETIC-TAPE HANDLER consists of ten separate identical units or bins, each with a capacity of over 8×10^6 bits. Each bin normally conains 500 ft of 1-in. wide magnetic tape for 14-channel recording with 200 pulse/in. density. Each bin is equipped with its own record-playback head which may be switched by relay to a common output. Dual speeds of 30 or 60 in./sec or other combinations are provided. (Potter Instrument Co., Inc., Dept. S362)

■ SILICON of semiconductor grade is commercially available. Three grades, research, premium, and standard, will be marketed. The research grade has a resistivity greater than 200 ohm cm and impurity content less than 1 part in 10^9. Minimum resistivity of the premium grade is 100 ohm cm and of the standard grade 10 ohm cm. (Texas Instruments, Inc., Dept. S356)

■ GEM-TESTING SET is based on the fact that neither index of refraction nor specific gravity separately will identify a gem but that together these properties will identify a gem with certainty. The set includes a "Refractoscope" used with six index-of-refraction liquids and a set of nine specific-gravity liquids. (R. P. Cargille Laboratories, Inc., Dept. S357)

■ FREEZE DRYING UNIT handles 300 5-ml serum bottles simultaneously. The trays upon which samples are placed revolve once each minute in front of a radiant-heating source to heat all samples uniformly. A tilting-type McLeod gage furnishes vacuum measurement. Dimensions of the unit are 12.5 by 23.5 by 15.5 in. (E. Machlett and Son, Dept. S358)

■ STAINLESS STEEL FLASKS, insulated with light-weight, rigid, closed-cell plastic, are said to provide insulating properties superior to vacuum flasks. The steel flasks, of wide-mouth design, are available in 2-, 4- and 8-lit capacities. (E. Machlett and Son, Dept. S360)

■ OSCILLOSCOPE covers the frequency range from direct current to beyond 50 Mcy/sec. Sweep can be driven at repetition rates as high as 250 kcy/sec and as slowly as 0.02 sec/cm. The y-axis amplifier is a three-stage direct-coupled type. Other features include a pulse rise time of 7 mμsec, attenuator ranges from 0.2 to 200 v full scale and an a.-c.-d.-c. synchronizing circuit that permits selection of the portion of the synchronizing signal from which to trigger the sweep. The oscilloscope is built up of six interchangeable units. All operating voltages are regulated. (Allen B. DuMont Laboratories, Inc., Dept. S359)

■ NUCLEAR POWER PACKS are capable of delivering energy pulses up to 337,000 ergs. The power pack is based on a nuclear battery which converts nuclear energy directly into electric energy in current ratings from 5 to 5000 μa and equilibrium voltages in the order of 10 kv. The battery current is used to charge

a capacitor. Means are provided to regulate capacitor voltage at values between 75 and 750 v. The power packs have a shelf or use life of 25 yr. They are supplied encapsulated in metal cases provided with standard connectors. (Universal Winding Co., Dept. S353)

■ COPPER-CLAD LAMINATE for printed-circuit applications is described in a 4-page bulletin. The laminate is a paper-base plastic which can be punched cold in thicknesses to 1/16 in. The material is trade-named "Cirprint." (Formica Corp., Dept. S355)

■ VIBRATION CALIBRATOR uses a noncontacting probe to measure vibrations of frequencies from 10 to 20,000 cy/sec and amplitudes 20 to 20,000 μin. Accuracy is said to be ± 5 percent. The surface opposite which the probe is positioned must have a minimum diameter of ⅞ in. and must be made of nonmagnetic metal. Other materials can be measured by cementing a piece of copper or aluminum foil 0.01-in. thick to the surface. The instrument is direct-reading in thousandths of an inch peak-to-peak displacement. An output for oscilloscopes is provided. (Tel Instrument Electronics Corp., Dept. S363)

JOSHUA STERN
National Bureau of Standards

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SCIENCE | The weekly magazine of research

May 31, 1957

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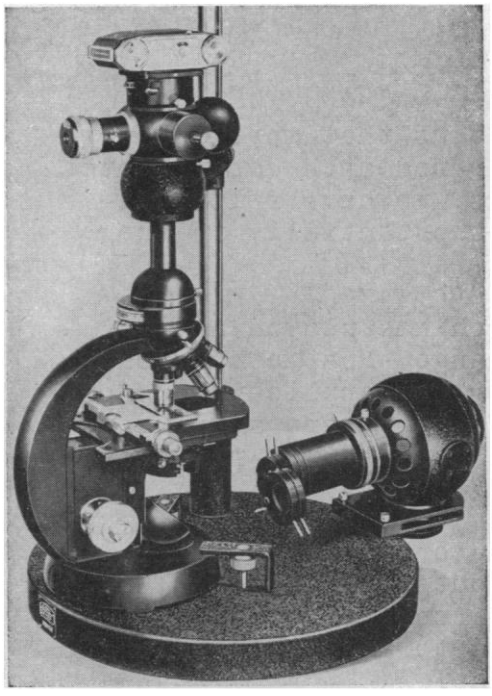

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