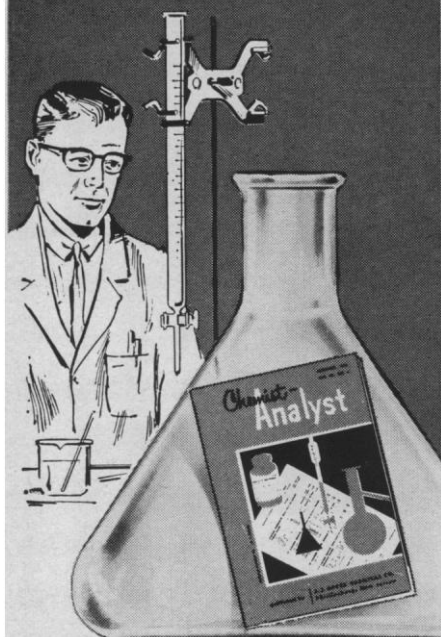


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ments of High Temperatures, symp., Chicago, Ill. (F. Brech, Laboratories for Applied Science, Univ. of Chicago, 6220 S. Drexel Ave., Chicago 37.)

24-25. Human Factors in Electronics, 1st annual symp. (IRE), New York, N.Y. (J. E. Karlin, Bell Telephone Laboratories, Murray Hill, N.J.)

24-26. American Assoc. for the History of Medicine, Charleston, S.C. (J. B. Blake, c/o Smithsonian Institution, Washington 25.)

24-26. Aviation Education, 4th natl. conf., Denver, Colo. (W. Kinkley, Superintendent of Schools, Aurora, Colo.)

26-27. American Psychosomatic Soc., 17th annual, Montreal, Canada. (E. D. Wittkower, APS 265 Nassau Rd., Roosevelt, N.Y.)

28-31. Exploitation of Natural Animal Populations, symp., Durham, England. (E. D. Le Cren, British Ecological Soc., The Ferry House, Ambleside, Westmorland, England.)

29-31. American Power Conf., 22nd annual, Chicago, Ill. (R. A. Budenholzer, Mechanical Engineering Dept., Illinois Inst. of Technology, 3300 Federal St., Chicago 16.)

29-2. National Science Teachers Assoc., 8th annual conv., Kansas City, Mo. (Miss M. R. Broom, NSTA, National Education Assoc., 1201 16 St., NW, Washington 4.)

30-31. Adrenergic Mechanisms, Ciba Foundation symp. (by invitation only), London, England. (G. E. W. Wolstenholme, Ciba Foundation, 41 Portland Pl., London, W.1, England.)

31-1. Continuous Culture of Microorganisms, symp., London, England. (R. Elsworth, c/o Ministry of Supply, Microbiological Research Establishment, Porton, Salisbury, Wilts., England.)

31-2. American Gastroenterological Assoc., New Orleans, La. (W. Volwiler, Dept. of Medicine, Univ. of Washington, Seattle.)

## April

1-3. American Soc. of Internal Medicine, San Francisco, Calif. (R. L. Richards, 350 Post St., San Francisco 8.)

1-3. American Soc. for the Study of Sterility, Cincinnati, Ohio (H. H. Thomas, 920 S. 19 St., Birmingham 5, Ala.)

1-4. Bahamas Medical Conf., Nassau. (B. L. Frank, P.O. Box 4037, Fort Lauderdale, Fla.)

2. Paleontological Research Institution, Ithaca, N.Y. (Miss R. S. Harris, 126 Kelvin Pl., Ithaca.)

2-6. American College of Obstetrics and Gynecologists, Cincinnati, Ohio. (D. F. Richardson, 79 W. Monroe St., Chicago 3, Ill.)

3-6. American Surgical Assoc., White Sulphur Springs, W.Va. (W. A. Altemeier, Cincinnati General Hospital, Cincinnati, Ohio.)

3-7. International Anesthesia Research Soc., Washington, D.C. (A. W. Friend, E. 107 St. and Park Lane, Cleveland 6, Ohio.)

3-8. Nuclear Cong., New York, N.Y. (P. Lange, Engineers Joint Council, 29 W. 39 St., New York.)

(See issue of 15 January 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.*

■ **RECORDING POLAROGRAPH** manufactured by Metrohm Ltd., Herisau, Switzerland, can be applied to amperometric titrations and to potentiometric titrations with low-resistance electrodes. Voltage applied to the potentiometer is stabilized so that line voltage variations of  $\pm 15$  percent are completely absorbed. Accuracy of voltage source and potentiometer linearity are  $\pm 0.2$  percent. Maximum sensitivity is said to permit determination of metal ion concentrations to  $10^{-4}M$ . Oscillations caused by the dropping mercury electrode are damped by a 10-step RC system. Charging-current compensation is adjustable from  $1 \times 10^{-10}$  to  $5 \times 10^{-8}$  amp/mm. First derivative polarogram may be recorded. (C. A. Brinkmann & Co., Inc., Dept. Sci347, 115 Cutter Mill Rd., Great Neck, N.Y.)

■ **TAPE SPLICER** for perforated tapes consists of a small metal block with a row of pins that fit the feed holes of all standard tapes. After aligning the tape ends, a short piece of adhesive material with punched holes is placed over the joined ends. No information is lost in splicing. (Computer Measurements Corp., Dept. Sci348, 12970 Bradley Ave., Sylmar, Calif.)

■ **VIDEO TELEMETER** is designed specifically for missile applications. The system uses a 525-line, 30-frame, fully interlaced picture. Circuitry is transistorized. Synchronization is crystal controlled. The entire system occupies 118.8 in.<sup>3</sup> and weighs 5.9 lb. Shock resistance is 40 grav. for 11 msec in three planes. Acceleration resistance is 45 grav. (Lockheed Electronics and Avionics Div., Dept. Sci350, 6201 East Randolph St., Los Angeles 22, Calif.)

■ **BLACK BODY CAVITY** for calibration of radiation pyrometers such as the Stoll-Hardy radiometer can be adjusted to any temperature between ambient and 65°C. Aperture size is  $\frac{3}{4}$  in. Operation is on 150 volts, 10 watts. (Williamson Development Co., Inc., Dept. Sci351, 317 Main St., West Concord, Mass.)

■ **ANGULAR ACCELEROMETER** consists of a seismic system, position-error detector, restoring mechanism, and a servo error-signal amplifier. Angular acceleration generates a force that tends to develop a displacement. The electrical feedback signal required to restore

balance provides an electrical output that is a measure of input acceleration. Ranges from  $\pm 1$  rad to  $\pm 50$  rad/sec<sup>2</sup> are available. Full-scale output is  $\pm 20$  volts across a 12,500-ohm load. Natural frequency of a  $\pm 10$  rad/sec<sup>2</sup> model is 100 cy/sec. Resolution and hysteresis are 0.01 percent of full scale or better, and linearity is 0.1 percent of full scale. (Donner Scientific Co., Dept. Sci356, Concord, Calif.)

■ **DRAWN WIRES** of soft metals can be supplied in diameters of 0.0007 in. and less. Chemically pure platinum, gold, aluminum, nickel, iron-free copper, aluminum-clad copper, and silver are available. Wires can be supplied bare or enameled. (Secon Metals Corp., Dept. Sci338, 7 Intervale St., White Plains, N.Y.)

■ **MELTING POINT APPARATUS** is an electrically heated device covering the range from room temperature to 350°C. Up to five samples are accommodated simultaneously. Bath temperature may be raised to 350°C in 6½ min. Cooling from 300° to 150°C can be accomplished in 11 min. A vibrating chamber packs samples in capillary tubes. The bath assembly, including heater, stirrer, and thermometer, lifts out for replacement of silicone heat transfer fluid. (Arthur H. Thomas Co., Dept. Sci349, Vine and 3rd Streets, Philadelphia 5, Pa.)

■ **ACOUSTIC VIBRATION TESTING SYSTEM** consists of an aluminum double-wall reverberation chamber, with a 30-ft<sup>3</sup> capacity and a power supply and control rack. Sixteen low-frequency and 16 high-frequency loud-speakers produce sound energy. A system of amplifiers and filters permits mixing of signals to provide a continuous white-noise spectrum. Two calibrated microphones measure sound pressure level. Sound intensity up to 147 db can be produced. (Ling-Alter Electronics, Inc., Dept. Sci344, Anaheim, Calif.)

■ **PEAK-PRESSURE GAGE** for hydraulic systems is available with full-scale ranges of 4000 and 10,000 lb/in.<sup>2</sup> The instrument combines a pressure pickup, an amplifier, a peak detector, and a large meter for indication. Pressure transients as brief as 1 msec are indicated. In operation, the meter deflects rapidly to the peak pressure and then decays slowly to the steady-state pressure. An output suitable for oscilloscope is provided. (Hydel Inc., Dept. Sci355, 223 Crescent St., Waltham 54, Mass.)

JOSHUA STERN

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12 FEBRUARY 1960

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**Biochemist.** Recent Ph.D. or equivalent experience for medical school research laboratory, to join in metabolic and chemical studies of polysaccharides. Please direct replies to Box 29, **SCIENCE**, X

**Biochemist, Research Associate, Ph.D.** To collaborate with research group on isolation and characterization of antigens responsible for the transplant rejection phenomenon. Experience in isolation of natural products desirable. Five-year program. Salary commensurate with experience. Application with full particulars and references to Dr. A. E. Axelrod, Biochemistry Department, School of Medicine, University of Pittsburgh, Pittsburgh 13, Pa. 2/12

**Biologist, Ph.D.,** to teach either cytogenetics, botanical sciences, or mammalian physiology in a Catholic university. Rank and salary open. Box 22, **SCIENCE**, 2/5, 12

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**Chemist, Ph.D.,** to head department of chemistry. Analytical and organic background desirable. Research opportunities. Write Chairman, Division of Natural Science, LeMoyné College, Memphis, Tenn. X

**Electron Microscopist, Ph.D.** or equivalent. Research institute, New York. Well-equipped and adequately staffed air-conditioned laboratory. Must have training and experience in all phases of preparation tissues and in handling machine. Box 20, **SCIENCE**, 2/5, 12

(a) **Experimental Physiology Assistant or Associate Professor**, also **Biology Instructor** for liberal arts college, New York. (b) **Research Microbiologist** for leading pharmaceutical firm, Midwest. (c) **Research Biochemist** for medical research unit of large university-affiliated hospital, East. (d) **Anatomy Faculty Appointment** at leading university dental school, Southwest. (e) **Chief Bacteriologist** to head department of 500-bed hospital, South. (f) **Head of Physics Department** in new science center of state university, around \$10,000 year, Midwest. (g) **Pharmacologist** to head cardiovascular research group on drug effect evaluation with pharmaceutical firm, around \$10,000; East. (h) **Research Biochemist** for cancer studies at medical foundation, Southwest. (Please write for details; also many other positions available through our nationwide service.) S2-2 Medical Bureau, Inc., Science Division, Burnside Larson, President, 900 North Michigan Avenue, Chicago. X

**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. 2/5, 12

**Pharmacologist.** Physiological or pharmaceutical background for research in pharmacology and toxicology. Independent research laboratory on East Coast. Salary at Ph.D. or equivalent level. Write Box 19, **SCIENCE**, 2/19

**Physical Biochemist**, prospective or recent Ph.D., as collaborator in studies of protein denaturation at Massachusetts Institute of Technology. Excellent salary; appointment renewable for several years. Early availability is very desirable. Write to P.O. Box 2176, Potomac Station, Alexandria, Va. 2/19, 26

**Research Associate, M.S.** or Ph.D. Major in chemistry. Warburg orientation desirable. Departmentalized research laboratory in large general hospital. Immediately available. Write Dr. Robert C. Grauer, Director, Singer Research Laboratory, Allegheny General Hospital, Pittsburgh 12, Pa. 2/12, 19, 26

**Research Biochemist**, male or female, B.S. or M.S. Major chemistry, minor biological sciences. Varied routine animal experiments and enzyme studies. Send resume to Dr. H. Gordon, St. Barnabas Medical Center, High St., Newark, N.J. 2/5, 2/12

Harvard Biological Laboratories require **Research Technician and Supervisor** of fully equipped laboratory utilizing radioisotopes in biological investigations. Individual should have bachelor's or master's degree in chemistry or physics and should be familiar with management and manipulation of radioisotopes. Contact Isotope Committee, Harvard Biology Department, Cambridge, Mass. X

## POSITIONS OPEN

**Research Technicians** with up to M.A. degree for challenging positions in basic biophysical or respiratory physiological research. Mechanical aptitude desirable. Excellent salaries based upon education and experience plus usual university employee benefits including 3 weeks' vacation. For additional information please submit résumé to Project Administrator, University of California, Naval Biological Laboratory, Naval Supply Center, Oakland 14, Calif. X

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## TISSUE CULTURE COURSE

The annual course in Principles and Techniques of Tissue Culture sponsored by the Tissue Culture Association will be given at the University of Wisconsin, Madison, Wisconsin, 20 June to 15 July 1960. A limited number of participants (post-doctoral research workers and teachers) can be admitted. The course will be directed by Dr. John Paul of Glasgow University. For further information and application forms, address Dr. Mary S. Parshley, College of Physicians and Surgeons, 630 West 168th Street, New York 32, New York. Tuition \$100. Deadline for application, 15 April 1960.

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Prospective applicants should write for further information to Prof. H. Kleerekoper, Chairman, Department of Biology, Hamilton College, McMaster University, Hamilton, Ontario, Canada. Application forms both for scholarships and graduate study are obtainable from the Dean of Graduate Studies and must be returned to him normally by 1 March 1960, accompanied by university transcript and letters of recommendation from two professors. 2/5, 12

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## LIPIDE CHEMISTRY

By Donald J. Hanahan, *University of Washington*; with contributing chapters by Frank R. N. Gurd, *Equitable Life Assurance Society of the United States*, and Cornell University; and Irving Zabin, *University of California, Los Angeles*. Contains an extensive discussion of the chemical nature of lipides (mainly from mammalian sources but applicable to many other sources) and the difficulties encountered in establishing with certainty the structure and purity of lipides isolated from natural sources. New information available within the last ten years is used to provide a more explicit chemical definition of the metabolic behavior of the single and complex lipides. Recent developments described include a number of new and improved fractionation techniques, isolation procedures, and methods of assay. 1960. 366 pages. \$10.00.

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