Genetic

Basis of

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Variation

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By RICHARD H. OSBORNE and FRANCES V. DE GEORGE

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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.)

4-6. American Inst. of Electrical Engineers, Houston, Tex. (N. S. Hibsham, AIEE, 145 N. High St., Columbus 15, Ohio.)

4-6. American Inst. of Mining, Metallurgical and Petroleum Engineers (43rd Natl. Open Hearth Steel Conf. and Blast Furnace, Coke Oven and Raw Materials Conf.), Chicago, Ill. (E. O. Kirkendall, AIME, 29 W. 39 St., New York 18.)

(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.

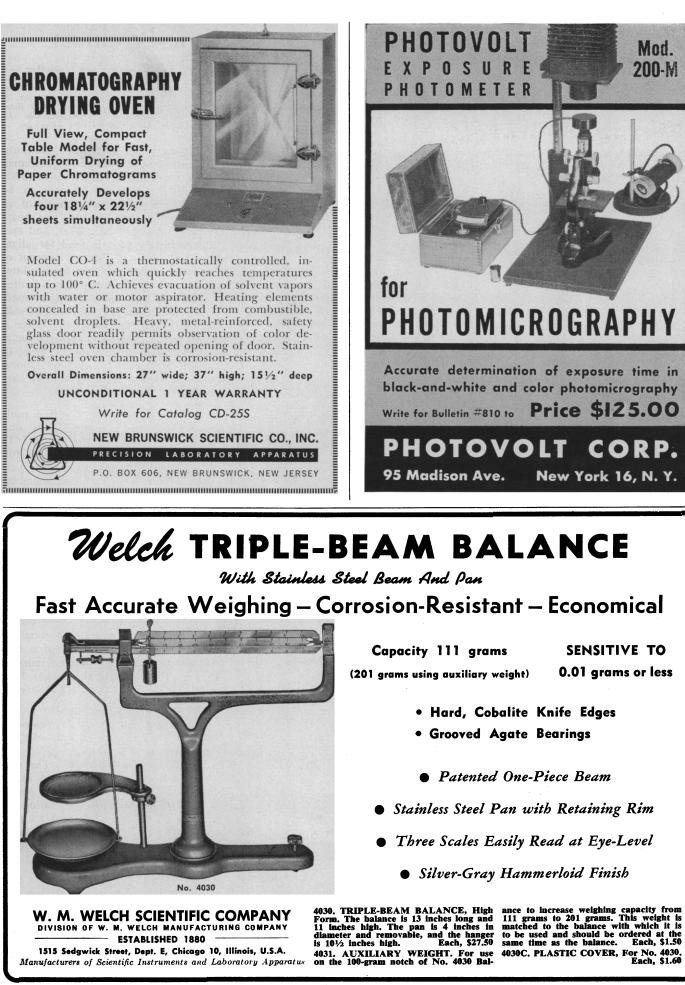
RECORDING PYROMETER measures brightness temperature at 0.65μ of small incandescent samples in the range 1300° to 3000°C. Accuracy is said to be $\pm 20^{\circ}$ C. The instrument consists of an optical system with objective lens, beam splitter, monochromatic filter, and evepiece. The evepiece is used for alignment and focusing. Seventy percent of the light is deflected by the beam splitter to a phototube. Time constant is limited only by the recorder or indicator used. A calibration curve relates output voltage to temperature. Focusing range is 40 to 70 in. At 50 in. the pyrometer measures the average temperature of an area 3/8 in. in diameter. (Avco Corporation, Dept. Sci332, 201 Lowell St., Wilmington, Mass.)

• DIGITAL MILLIVOLTMETER is a portable instrument weighing 23 lb. and measuring 934 by 10-5/16 by 16-5/32in. Ranges are 1, 10, and 100 mv full scale. Accuracy is said to be ± 0.1 percent. The self-contained instrument includes instrument power, standard cell. ratiometer, bridge balance, millivoltmeter, and voltage-level and end-point offset controls. (Technical Industries Corp., Dept. Sci337, 39 North Fair Oaks, Pasadena, Calif.)

■ MAGNETRON PULSE MODULATOR is capable of powering small magnetrons requiring inputs up to 10 kw peak at a duty cycle up to 0.002. Pulse widths from 0.1 to 2 µsec can be supplied. Pulse voltage, average magnetron current, and magnetron filament current are metered. (Bomac Laboratories, Inc., Dept. Sci339, 1 Salem Rd., Beverly, Mass.)

■ PLATINUM RESISTANCE THERMOME-TER covers the range -100° to $+500^{\circ}$ F. Resistance is 470 ohm at 32°F, and the coefficient is 1 ohm/F°. The sensitive element, measuring 0.156 in. in diameter by 0.281 in. long, is potted in a stainless-steel case. Calibration accuracies of ± 0.25 , ± 0.5 , and ± 1 percent are available. (Minco Products, Inc., Dept Sci340, 740 Washington Ave., North, Minneapolis 1, Minn.)

■ VIBRATION TESTING SYSTEM is a random and sine-wave testing system for the range 5 to 10,000 cy/sec. No impedance changing or manual powerfactor correction is required over this range. Peak random force is 2500 lb and sine-wave vector force is 1500 lb when used with the manufacturer's



5 FEBRUARY 1960

model A-174 shaker. Power generator, field and degaussing supply, cycling oscillator, servo system, and stop-start controls are housed in a single console with the shaker external. (Ling-Altec Electronics, Inc., Dept. Sci343, Culver City, Calif.)

■ NULL DETECTOR has input impedance of 40,000 ohm and will provide high sensitivity with source resistances up to 100 kohm. Circuitry is designed to provide maximum sensitivity at the null point and saturation on large signals. Sensitivities are 0.2 μ v/mm up to 20 kohm source resistance, $0.3 \ \mu v/mm$ from 20 to 50 kohm, 0.5 μ v/mm from 50 to 100 kohm. Sensitivity may be varied over a 1 to 1000 range. Period varies from less than 2 sec at 1 kohm to 4 sec at 100 kohm. Zero shift is less than 0.5 div/hr after 1 hr of warmup. The guard circuit connects to the shield of a two-conductor input cable. (Leeds and Northrup Co., Dept Sci345, 4907 Stenton Ave., Philadelphia 44, Pa.)

CLOTTING TIMER operation is based on photoelectric nephelometry. The change of intensity of scattered light extending over the entire clotting reaction is automatically recorded. To determine prothrombin time, thermostatted thromboplastin contained in a microtube is placed in the instrument. The sample is blown into the tube and the recorder is started. The number of divisions between start and end point gives prothrombin time directly. The instrument's optical unit and recorder are separate, permitting use of the latter for other purposes. (Photovolt Corp., Dept. Sci352, 95 Madison Ave., New York 16, N.Y.)

REGULATED POWER SUPPLIES for heavy-duty applications are designed to handle input voltage up to 15 kv single-phase or three-phase, 25 to 60 cy/sec, and to furnish output current to 100,000 amp, single-phase, twophase, three-phase, or d-c. Systems are designed to meet customer specifications. (Heavy-Duty Electric Co., Dept. Sci354, Milwaukee, Wis.)

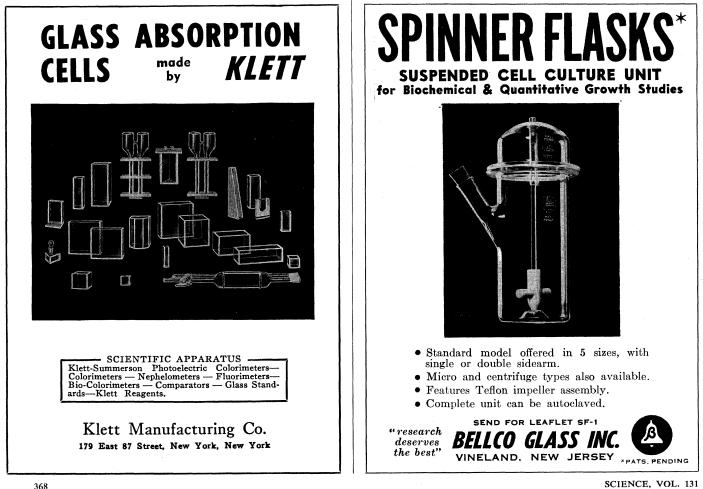
■ TEMPERATURE MONITOR simultaneously monitors up to 100 points and sounds an alarm when any of the points reaches the temperature indicated on its control dial. The audible alarm may be turned off manually while an identifying light remains on as long as the temperature remains off normal. Actual temperature at any point may be determined by rotating the appropriate set-point dial until the indicating light

flashes on. Over-all accuracy is $\pm 3^{\circ}$ F. The system is built up of the required number of 10-unit panels. (Fischer & Porter Co., Dept. Sci357, 303 Jacksonville Rd., Hatboro, Pa.)

■ BATTERY PACKS are potted for shock resistance up to 2000 grav. The packs consist of rechargeable nickelcadmium battery cells. By using any number of cells, the pack can be custom formed to fill what is often considered dead space and to provide any voltage or current capacity required. (Gulton Industries, Inc., Dept. Sci339, 212 Durham Ave., Metuchen, N.J.)

■ SPRAYED-FILM HEATING ELEMENTS have a total thickness of 0.011 to 0.015 in. including base insulation 0.005 in. and top insulation and abrasion protection 0.001 to 0.005 in. The insulating coating normally used provides a dielectric strength of 650 volts. Heating coatings can be applied directly to the part or to detachable components. By appropriate masking, any desired arrangement of serious-parallel circuits can be had. (Electrofilm Inc., Dept. Sci358, 7116 Laurel Canyon Blvd., North Hollywood, Calif.)

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



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BIOCHEMIST-PHARMACOLOGIST Research director, outstanding record in ethical drug field, interested in broad scope of opportunity, academic or industrial. Na-tionally known; contacts, personally devel-oped, in Europe, Russia, the Far East. Two books, many patents, publications. Con-versant with FDA, AMA, and BSD of NIH. Ideas plus proven ability to build. Résumé. **Box 25, SCIENCE**

Biologist, Ph.D., 11 years' teaching experience. Numerous publications. Box 14, SCIENCE. 1/29; 2/5, 12

Cytogeneticist, Electronmicroscopist, Ph.D. Experi-cenced in specialized cytological methods, teach-ing, research. Microbiology, botany background, Numerous publications. Box 16, SCIENCE. X Numerous publications. Box 16, SCIENCE. X (a) Parasitologist, Ph.D. from leading university, 7 years of teaching experience; desires biology-zoology teaching or parasitology research appoint-ment. (b) Biochemist, M.S. degree, 4 years of clinical experience, available for medical super-vising or research position, (c) Organic Chemist, Ph.D. with extensive experience as group leader in compound synthesis for pharmaceuticals; in-terested in pharmaceutical research and adminis-tration appointment. S2-1 Medical Bureau, Inc., Science Division, Burneice Larson, President, 900 North Michigan Avenue, Chicago. X

POSITIONS OPEN

Anatomy Department, Dalhousie University, Hali-fax, Nova Scotia. Applications are invited for two positions at the rank of Assistant Professor in the Department of Anatomy. Experience in the teaching of gross anatomy is essential and a willingness to undertake some teaching in neuroanatomy, histology, or embryology desir-able. The successful candidates will be expected to participate in the active research program of the department, for which good facilities are available. Applicants with a medical degree will be preferred although those with an honors de-gree in medical science or biology will receive special consideration. The minimum salary for a medical graduate will be \$6000. The salary will depend upon qualifications and experience. Ap-plication should be sent to Professor R. L. deC. H. Saunders at the above address. 3/4; 4/1; 5/6; 6/3**Biochemist. Research Associate.** Ph.D. To col-Anatomy Department, Dalhousie University, Hali-

3/4; 4/1; 5/6; 6/3 **Biochemist, Research Associate**, Ph.D. To col-laborate 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

Electron Microscopist, Ph.D. or equivalent. Re-search 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

5 FEBRUARY 1960

POSITIONS OPEN

Los Angeles State College announces the fol-lowing openings: (1) Assistant Professor of Microbiology to teach food, soil, and general microbiology. (a) Assistant Professor of Botany or Zoology to teach one or more of the following: inverte-brate zoology, animal histology, embryology, plant ecology, phycology, and in addition to teach general education courses in biology for the non-science major. The teaching load will be mainly in the latter area and for this reason a broad training in the biological sciences is essential and of more importance than the candidate's partic-ular field of specialization. For further information write to Dean Albert D. Graves, Los Angeles State College, 5151 State College Drive, Los Angeles 32, Calif. X

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

Cancer Chemotherapy (Research and Develop-ment)—opening for qualified junior scientist with M.S. or equivalent experience in bacteriology and/or virology. Assist senior scientist in the study of microbial cell systems and bacterial and animal viruses of potential interest to the cancer problem. Submit complete résumé to: Personnel Director, Bristol Laboratories, Syracuse 1, New York.

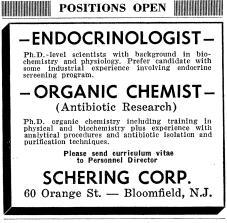
(a) Director of Research and Development for foreign unit of large pharmaccutical firm; Ph.D. or M.D. with background in pharmacology, physiology, biochemistry and clinical research ex-perience for clinical evaluation and liaison duties; §14,000-§19,000 year start. (b) Bacteriologist for modern 300-bed hospital, East. (c) Biochemist for research on new therapeutic agents; also Pharmacologist/Physiologist for cardiovascular and coagulation research; around \$10,000 year; Midwest. (d) Medical Microbiology Instructor or Assistant Professor; Midwest. (e) Clinical Bio-chemist, Ph.D. or M.S. degree, to supervise unit and conduct research; 400-bed hospital of spe-cialists; North. (f) Research Associate with Ph.D. in biological sciences and background in physics or electronics for pulmonary function unit of ex-panding hospital, \$8000 year up; Chicaro. (g) Anatomist for university faculty, Southwest. (Please write for details; also many other posi-tions available through our nationwide service.) S2-1 Medical Bureau, Inc., Science Division, Burneice Larson, President, 900 North Michigan Avenue, Chicago. X

Avenue, Chicago. X (a) Director, Clinical Research; M.D. experienced in clinical pharmaceutical research for midwes-term division, prominent concern; minimum \$15,000; large university city. (b) Biochemist; Ph.D. to direct division, prefer protein experience, administrative ability; rapidly growing pharma-ceutical concern, extensive research program, several affiliated; to \$14,000; East. (c) Virologist; Ph.D. experienced tissue culture; university-af-filiated research institute; to \$11,000; West Coast. (d) Biochemist; M.S., Ph.D. to head section, busy laboratory, 300-bed general hospital; \$8000 up; proved 200-bed general hospital, to \$7200; resi-dential city near noted eastern university center. Woodward Medical Bureau, Ann Woodward, Director, 185 North Wabash, Chicago. X Laboratory Technician IL at least 5 years' experi-

Laboratory Technician II, at least 5 years' experi-ence required. \$3744 per year, 40-hour week, Monday through Friday. Paid vacation, sick leave, legal holidays, excellent retirement system, group life insurance. Apply Dr. Peter W. Bow-man, Superintendent, Pineland Hospital and Training Center, Pownal, Maine. X

New World-Wide Graduate Award Directories for American scientists, teachers, librarians to subsidize their education and research. Stipends \$200-\$10,000. Volume I (1957), \$3; volume II (just published, no duplication), \$3; both volumes, \$5. Limited editions. Complete, specific informa-tion on 400 awards in United States and overseas in each volume. CRUSADE, Sci., Box 99, Station G, Brooklyn 22, N.Y.

Research and Teaching Assistantships available for graduate students. Programs in metabolism, mechanisms of biological reactions, muscle phys-iology, and enzyme chemistry. Stipends \$3000 per year. Applications invited for immediate consideration or for next academic year. Personal interviews arranged for promising candidates, Write Chairman, Department of Pharmacology, St. Louis University School of Medicine, St. Louis 4, Missouri. 2/5

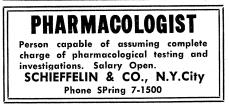


Medical Technician, male or female, B.S. pre-ferred, research laboratory. Paraffin sectioning, H and E plus special staining. Some experience required. Dr. J. Christensen, St. Barnabas Medi-cal Center, High St., Newark, N.J. 2/5, 12

PATHOLOGIST under 35, Ph.D., M.D., or D.V.M. to assist department head. Experience in comparative, diagnostic and experimental pathology required. Excellent working conditions and opportunity for research. Address inquiries to:

EMPLOYMENT DIVISION ABBOTT LABORATORIES NORTH CHICAGO, ILLINOIS

Pharmacist. The American Medical Association has salaried position for recent graduate of ac-credited pharmacy school interested in working as a full-time assistant in program of maintain-ing high standards of drug advertising for the association's scientific journals. Strong background in pharmacology desirable. Salary commensurate with training and experience. Initial reply must include summary of personal, academic, and mili-tary background as well as references. Send full résumé to Dr. John C. Ballin, American Medical Association, 535 North Dearborn St., Chicago 10, Ill. X



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. 1/29; 2/5, 12

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Physiologist. Recent Ph.D. to teach vertebrate physiology at a large Catholic university in New York City area and to do research, preferably in the area of cardiovascular or respiratory physiol-ogy. Box 26, SCIENCE. X

ogy. Box 26, SCIENCE. A Research Associate, M.S. or Ph.D. Major in chemistry. Warburg orientation desirable. De-partmentalized research laboratory in large gen-eral hospital. Immediately available. Write Dr. Robert C. Grauer, Director, Singer Research Laboratory, Allegheny General Hospital, Pitts-burgh 12, Pa. 2/12, 19, 26

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POSITIONS OPEN Research Biochemist, male or female, B.S. or M.S. Major chemistry, minor biological sciences. Varied routine animal experiments and enzyme studies. Send résumé to Dr. H. Gordon, St. Barnabas Medical Center, High St., Newark, N.J. Science Teachers, Librarians, Administrators ur-gently needed for positions in many states and foreign lands. Monthly non-fee placement journal since 1952 gives complete job data, salaries. Mem-bers' qualifications and vacancies listed free. 1 issue, S1. Yearly (12 issues) membership, \$5. CRUSADE, SCI., Box 99, Station G, Brooklyn 22. N.Y. ew

22. N.Y. ew Applications are invited for a position in the Soil Science Department, University of Alberta, at Assistant or Associate Professor level. Starting salary \$7500-\$9000. Duties to commence 1 April to 1 July 1960. Duties will include research, teaching and extension in the field of soil chemistry and soil fertility. Ph.D. or equivalent required and additional experience desirable par-ticularly with respect to fertility work with forage crops. Inquiries welcomed by Head, Soil Science Department, University of Alberta, Edmonton, Canada. 2/12 anada 2/12

Virologist-Tissue Culturist, Ph.D. Training and/or experience in the isolation of viruses as well as the cultivation of cell cultures for research on problems relating to tumor viruses. Ample salary, new building, and newly organized research group in East. Box 15, SCIENCE. 2/12, 19, 26

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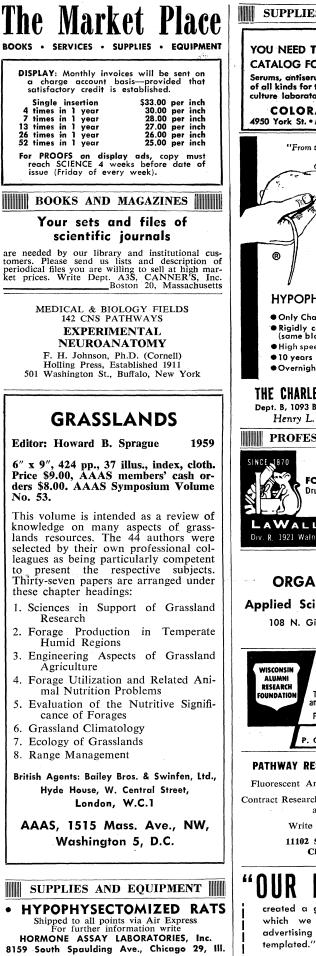
Oceanography and Meteorology. Three-year H.E.W. graduate fellowships available at Texas A. &. M. College. Stipend is \$2000 first year plus \$400 for each dependent. Tuition waived. Aca-demic capability (physics, chemistry, engineering, mathematics, geology meteorology, biology) and broad interest required. Application deadline 29 February. For application forms contact Head, Department of Oceanography and Meteorology, College Station, Texas. X

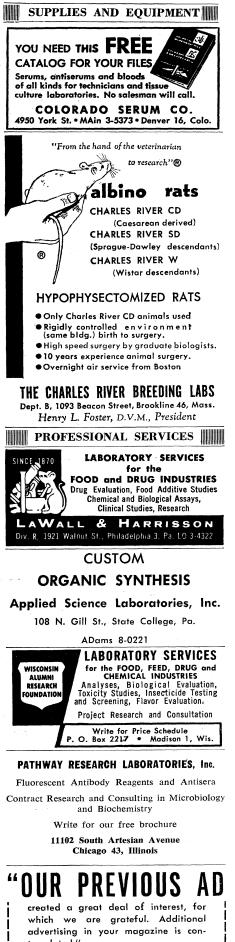
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SCHOLARSHIPS

4



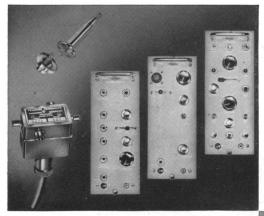


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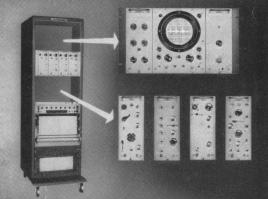


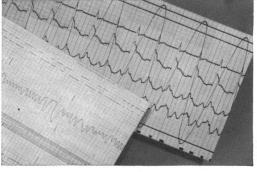
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PIPETTE DRYER, VirTis Filtered Air Type. Combines high wattage heat, efficient insulation and high velocity convection for rapid drying of pipettes. A filter in the air stream removes contaminating dust before it enters the drying chamber. A timer switch automatically shuts off the unit at the end of a predetermined cycle.

Metal parts are of Stainless steel throughout. The 1250 watt combination air heater and blower delivers 50 cubic feet of air per minute. Drying chamber is heavily insulated with fiber glass with outer shell of heat-reflecting aluminized Mylar[®]; dimensions of drying chamber, 24 inches high \times 5½ inches inside diameter. A heavy duty electric timer, range 0 to 30 minutes, is built into the base. Solid wall construction of the drying rack prevents pipette breakage. Overall height of complete apparatus, 33 inches; base $10\frac{1}{2}$ inches square.

15-160. Pipette Dryer, VirTis Filtered Air Type, as above described, complete with one pipette carrier and connecting cord; for 115 volts, 60 cycles, a.c.. **195.00**

NOTE—The pipette carrier, 5¼ inches outside diameter, as supplied with the Boekel Automatic Pipette Washer, can be used in the chamber of above Dryer.



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