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A variable speed, rotary shaking apparatus integrated with a constant temperature bath . . . precision built for continuous duty.

MODEL G76

- Variable speed: 85-285 rpm & 140-400 rpm.
- Heats rapidly to pre-set temperatures from ambient to 100° C. \pm 0.5° C.
- Triple eccentric stabilizing system imparts uniform agitation to all flasks on shaking platform.
- Cool, quiet, vibrationless performance.
- Compact. Large capacity for flasks, tubes and beakers. Used with gaseous atmospheres.
- Other models available with reciprocating motion.

UNCONDITIONAL 1 YEAR WARRANTY

Write for catalog G76-J15

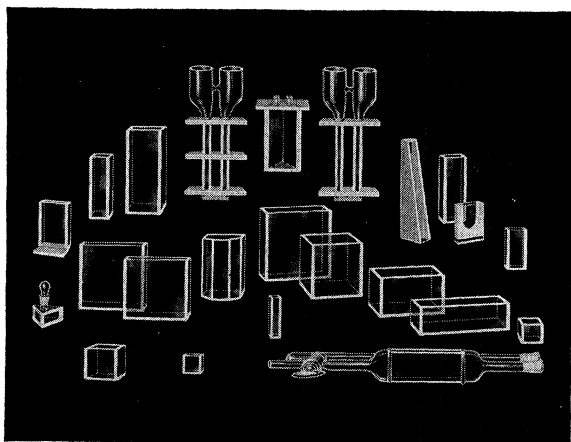


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PRECISION LABORATORY APPARATUS

P.O. BOX 606, NEW BRUNSWICK, NEW JERSEY

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Klett Manufacturing Co.

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Sigma is probably the leading basic producer of these important co-enzymes. Sigma Quality has always been the World's Highest, but now it is even *higher* than before. Not yet 100%, but we are rapidly getting there.

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β DPNH

Type 1—90-95% Pure—\$35 per gram
(This has been our regular offering)

② GRADE—97-100% Pure—\$50 per gram
Never before has such a purity been offered commercially.

Note: At present only limited quantities are available, but we expect to develop our production to a routine basis over the next several months.

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DPNH TYPE I PRE-WEIGHED VIALS completely Stable At Room Temperatures

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5.0mg	340-105	15.00
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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.

■ **TRANSISTOR TEST SET** measures beta parameter from 0 to 30/100/300; input impedance from 500 to 20,000 ohms; and collector cut-off current from 0 to 50 μ a. Test frequency is normally 1 kcy/sec from an internal oscillator. Internal collector voltage source is a 52-v mercury cell. Accuracy is said to be ± 2 percent for cut-off current, ± 3 percent for beta, and ± 5 percent for input impedance. (Metronix, Inc., Dept. Sci264, Chesterland, Ohio)

■ **CURRENT PULSE GENERATORS** designed to furnish test pulses for computer components furnish 1-amp (max.) pulses with 0.1- μ sec rise time. Separate models are available for positive and negative pulses. Width and pattern of pulses are determined by external logic circuitry. Current setting is continuously adjustable. (Digital Equipment Corp., Dept. Sci266, Maynard, Mass.)

■ **MINIATURE WIRE-WOUND POTENTIOMETER** has power rating of 1.0 watt and maximum operating temperature of 175°C. Dimensions are 3/16 by 5/16 by 1 in. Resistances from 100 to 20,000 ohms are available. The units are said to be impervious to salt spray, fungus, sand, and dust, as well as to exceed government specifications for shock, vibration, and acceleration. (Bourns Laboratories, Inc., Dept. Sci271, P.O. Box 2112, Riverside, Calif.)

■ **RADIO-FREQUENCY VOLTAGE CALIBRATOR** provides four output ranges between 2 mv and 3 v r.m.s. Accuracy is said to be ± 0.3 percent of full scale, and maximum frequency effect is said to be ± 0.2 percent from d-c to 10 Mcy/sec. The instrument requires a 3-volt input signal into 600 ohms at any frequency up to 10 Mcy/sec. A built-in d-c reference permits calibration of full-scale deflection. (Sensitive Research Instrument Corp., Dept. Sci277, 310 Main St., New Rochelle, N.Y.)

■ **SPHERE GAP ASSEMBLY**, model 8526, for high-voltage measurement, includes a sphere gap and current-limiting resistors mounted on an insulating base. Spacing of the 6.25-cm spheres is controlled by a micrometer adjustment calibrated in mils. Measurement accuracy is said to be ± 3 percent for d-c potentials and a-c peak potentials at commercial power frequencies up to 120 kv. (Associated Research, Inc., Dept. Sci288, 3777 Belmont Ave., Chicago, Ill.)

■ **UNDERWATER CAMERA** is housed to withstand pressures of 8 tons/in². Up to 500 photographs can be taken at 10-sec intervals on 35-mm film. Time and other data are recorded on the film with each exposure. An electrically controlled shutter is synchronized to an electronic flash of 100 watt-sec capacity. The unit weighs 50 lbs.; it is 22 in. long and 5 in. in diameter. (Edgerton, Germeshausen & Grier, Inc., Dept. Sci275, 160 Brookline Ave., Burton, Mass.)

■ **AMPLIFIER** for measurement of nuclear radiation recovers rapidly after a large pulse of several hundred times overload. Rise time is less than 0.2 μ sec. Gain stability is ± 0.027 percent with ± 1 percent change in line voltage. Linearity over the 0-to-100-volt range is better than 0.1 percent into loads greater than 1000 ohms. Gain is 10,000 with delay-line clipping and 20,000 with RC clipping. (Hanmer Electronics Co., Dept. Sci279, Princeton, N.J.)

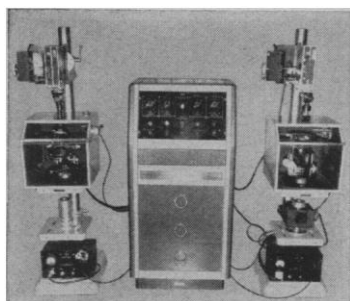
■ **MULTICHANNEL OSCILLOSCOPE** uses a 17-inch, long-persistence cathode-ray tube to display 24 channels of information. Each of 24 plug-in channel amplifiers has its individual control for vertical position, beam intensity, gain, and balance. Sweep is calibrated from 100 μ sec to 1 sec/cm. Frequency response is d-c to 3500 cy/sec. Sensitivity is 10 mv/in. (Railway Communications, Inc., Dept. Sci280, 9351 E. 59 St., Raytown, Mo.)

■ **SPECTROPHOTOMETER ACCESSORIES** include precision-bore 10-mm diameter cuvettes and "micro-space" adapters. Used alone, the cuvettes require a minimum sample volume of 1.8 ml. The adapter reduces the volume requirement to 0.7 ml while retaining the 1.0-cm path. Cells are matched to 0.5-percent transmission. (Coleman Instruments, Inc., Dept. Sci284, 42 Madison St., Maywood, Ill.)

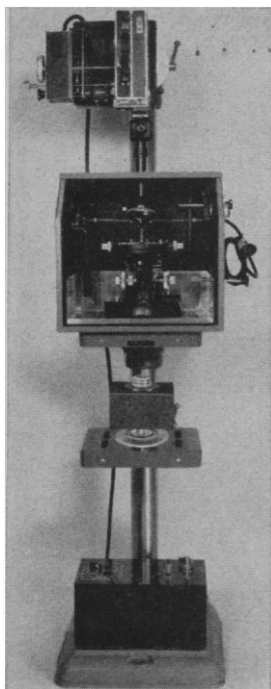
■ **PHOTOELECTRIC AUTOCOLLIMATOR** eliminates the need for visual observation but can be used in the normal visual way when required. The photoelectric detector consists of a vibrating slit and a Hilger-Schwartz photocell. A center-zero indicating meter can be remotely located. The instrument is first set up visually, after which displacement produces a corresponding deflection of a meter. For highest accuracy the indicating meter is used as a null detector. Accuracy is said to be ± 0.05 sec. Existing autocollimators can be converted for photoelectric observation. (Hilger and Watts, Ltd., Dept. Sci285, 98 St. Pancras Way, Camden Rd., London, N.W.1, England)

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National Bureau of Standards,
Washington, D.C.

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For photographing automatically, under a microscope, any material that has a time change in structure.

Still photographs are made on motion picture film at relatively long time intervals then projected at standard speed. Changes that represent hours at a normal rate are then viewed in minutes, picturing clearly the effects of time, temperature and environment on the material. Ideal for showing plant growth, corrosion studies, tissue cultures, blood samples, bacteria, metals, minerals, waxes, and crystalline formations.

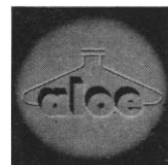
All components for a complete time lapse unit can be mounted on stand assembly. This includes camera, microscope and incubator, illuminator, and timer. Dual drive control unit operates two cameras and associated equipment on two stand assemblies.

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Box (give number)
Science
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Washington 5, D.C.

POSITIONS WANTED

(a) **Biochemist**, Ph.D., bacteriology minor; M.A. organic chemistry major; extensive experience in radiology-biochemistry teaching and cancer research; available for high-level academic appointment. (b) **Young Physiologist**, Ph.D., June 1960; prefers cytology, endocrinology or physiology research activities. S1-1 Medical Bureau, Inc., Science Division, Burnside Larson, President, 900 North Michigan Avenue, Chicago. X

Ph.D., Plant Pathology, root diseases; 2 years of postdoctorate research; 10 years of teaching; 33. Research and/or teaching from September 1960. Box 3, SCIENCE. X

POSITIONS WANTED

Electron Microscopist, Cytologist, M.D. Desires independent position university medical or biological sciences department. Preference West Coast or adjacent states. Experienced setting up electron microscopy laboratory, familiar with modern techniques used in cytology, several years' experience in ultrastructure research, publications. Box 266, SCIENCE. 1/1, 8

Experienced Ph.D., chemistry, physiology, 13 years of animal radioisotope research. Publications. Sigma Xi. Available for senior research, related administrative position, West. Box 2, SCIENCE. X

Microbiologist, M.S. Immediately available, research, teaching. Box 4, SCIENCE. X

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Assistant-Associate Professor of Chemistry. Ph.D. physical/organic. Growing department \$5000-\$6800. W. Sink, Department Head, Appalachian State Teachers College, Boone, N.C. X

Blood Coagulation Research. Long-established program in this field has renewed 5-year program, with openings for qualified research associates. Address John H. Ferguson, Department of Physiology, University of North Carolina, Chapel Hill, N.C. 12/25; 1/1

Chemist, M.S. Excellent opportunity for young man to work under Ph.D. in charge of chemistry laboratory of large teaching hospital. Assume some responsibility for supervising technicians involved in clinical and research work. Salary \$5280. Send complete résumé to Personnel, St. Luke's Hospital, 421 West 113 St., New York 25. 1/15

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Applications are invited for the post of **Professor and Chairman of the Department of Animal Science** in the Faculty of Agriculture of McGill University, Macdonald College, P.Q. The department's teaching and research interests include breeding and management in poultry and animal husbandry, animal nutrition, and animal pathology.

Candidates should have extensive experience in both teaching and research, preferably in the large animal field. Duties to begin on or before 1 September 1960. Applications must be accompanied by a curriculum vitae and the names of three referees. Submission should be made before 15 February 1960 to the Dean, Faculty of Agriculture, McGill University, Macdonald College, P.Q., Canada. X

CARDIO-VASCULAR RESEARCH. Well grounded Ph.D. or M.D. skilled in hemo-dynamics and physiological techniques for pharmacologic evaluation and basic research program. Reply to Employment Division, Abbott Laboratories, North Chicago, Illinois.

— ENDOCRINOLOGIST —

Ph.D. level scientist with background in biochemistry and physiology. Prefer candidate with some industrial experience involving endocrine screening program.

— ORGANIC CHEMIST — (Antibiotic Research)

Ph.D. organic chemistry including training in physical and biochemistry plus experience with analytical procedures and antibiotic isolation and purification techniques.

Please send curriculum vitae to Personnel Director

SCHERING CORP.

60 Orange St. — Bloomfield, N.J.

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(a) **Associate Director of Biological Research** with leading drug manufacturer; development of new drug experience essential; around \$20,000 year; East. (b) **Assistant Professor of Botany** for teaching and research in agricultural school; South. (c) **Head of Tabletting-Coating Section** with good related experience for large pharmaceutical firm; \$8000-\$11,000 a year. (d) **Analytical Chemist**, Ph.D. or M.D. to conduct various assays and research on new techniques; high salary; Texas. (e) **Experimental Pathology Scientists**, Ph.D. or M.D. for large cancer research center; endocrinology background desirable; around \$8000 year; East. (f) **Product Development Bacteriologist** to supervise vaccine production installation and personnel; tissue culture background helpful; salary open; Midwest. (g) **Research Biochemist** for independent research on food and drug products; relatively new division of large industrial firm; \$8000-\$10,000 year; East. (h) **Biochemistry/Immunology Research Associate** for protein purification from tissue and their characterization, also teaching if desired; large medical school with expanding research program; East. S1-1 Medical Bureau, Inc., Science Division, Burnside Larson, President, 900 North Michigan Avenue, Chicago. X

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These positions offer opportunity to use your initiative and creative ability on interesting and varied programs. Excellent employee benefits and liberal vacation policy.

Please send résumé to

E. P. Bloch

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Visiting Professorship in Oceanography, University of Cape Town. The salary is £2500 per annum. A special traveling allowance will be paid in terms set forth in the memorandum referred to below.

The post is vacant from 1 July 1960, and in the first instance the appointment will be for 1 year. By mutual agreement the period may be extended for two further years, and may thereafter be made permanent.

Applications should state research experience, publications, and the names of two referees whom the university may consult. It is essential that the program of research which the applicant proposes to undertake while at Cape Town should accompany his application.

Two copies of the application should reach the Secretary, Association of Universities of the British Commonwealth, 36 Gordon Square, London, W.C.1, not later than 31 January 1960. An additional copy should be sent direct by airmail to the Registrar, University of Cape Town, Private Bag, Rondebosch, Cape Town, South Africa, by the same date.

Details of research facilities in marine science and the duties of the visiting professor are set out in a memorandum obtainable on application to the Secretary of the above Association.

The University reserves the right to appoint a person other than one of the applicants or to make no appointment. X

(a) **Research Biochemist**; Ph.D. for supervisory, research appointment, central allergy laboratory, large government hospital; research and improving antigenic qualities of extracts, related areas; \$9500; East. (b) **Biochemist**; M.S. preferred to head department, fully approved 400-bed general hospital; minimum \$6800; midwestern college city. (c) **Pharmacologist**; Ph.D. to direct screening program, plan, develop specialized experiments, new testing methods; prominent eastern concern; to about \$10,000. (d) **Biochemist**; Ph.D., well grounded in nutrition; principal research laboratory, Woodward Medical Bureau, Ann Woodward, Director, 185 North Wabash, Chicago. X

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Excellent opportunity for an individual capable of organizing and administering a **Biochemistry Department** of a rapidly expanding manufacturer of veterinary products.

Advanced degree—Ph.D.—experience or training in animal biochemistry—ability to initiate and supervise research procedure to determine the metabolic fate of chemical medicinal compounds and chemical metabolites—experience in preparation of new drug applications—knowledge of C¹⁴ techniques—are required.

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Send full details of education, background, and experience to Box 1, SCIENCE.

PH.D. PHARMACOLOGIST OR PHYSIOLOGIST to conduct independent research in the cardiovascular and coagulation areas.

PH.D. PHARMACOLOGIST OR PHYSIOLOGIST to conduct independent research on the pharmacological effects of proteolytic enzymes, including studies on inflammation. Send résumé stating age, experience, education, salary expectation, to Mr. E. J. Reidy, Personnel Manager, **ARMOUR PHARMACEUTICAL COMPANY**, Kankakee, Illinois.

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- 2) Ph.D. immunologist to conduct experiments on immunopathology of hypersensitive, autoimmunity, or host defense mechanisms.

Please send résumé to

Technical Employment Coordinator

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Senior Research Scientist (Physiology). Appointment at minimum of \$8652 with five annual increments to maximum of \$10,362. To do research in the Neuro-Endocrine Research Unit of Willowbrook State School, Staten Island, N.Y. Some knowledge of biologic assay of hormones is desirable. Ph.D. is necessary. Applications to be made to Dr. H. H. Berman, Director, Willowbrook State School, Staten Island 14, N.Y.

Research Technicians with B.S. degree in biology, chemistry, or biochemistry, for interesting work in the medical research field. Perquisites include 3 weeks' vacation, 9 holidays, sick leave, retirement plan, social security, hospitalization and life insurance programs. For additional information please submit résumé to Personnel Manager, The M. D. Anderson Hospital and Tumor Institute, Texas Medical Center, Houston, Texas.

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in the field of infection and immunity. These may be granted for study in any of the departments of The University of Texas Medical Branch. Stipends: Predoctoral \$3600 plus allowance for dependents; postdoctoral starting at \$7500. Additional allowances are made for equipment, supplies and travel. Renewable. For information and application write Chairman,

McLaughlin Committee

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The Market Place

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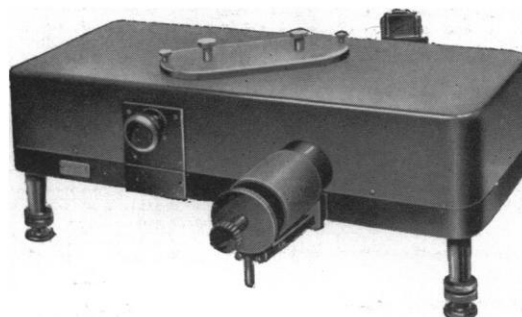
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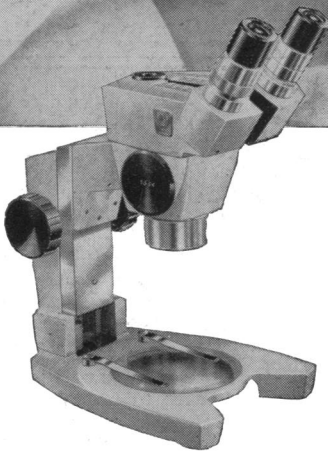
No. 7050 Charts with tripod	Set, \$37.50
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Multi-exposure shot showing "PERMANENT" mounted prism being crashed into a piece of wood. Bond was not affected in any way. Your AO Sales Representative will perform this demonstration right before your eyes



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This stroboscopic photograph shows the amazing holding power of the specially developed "PERMANENT" bonding agent used to mount prisms in the new AO Spencer Cycloptic Stereoscopic Microscopes.

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