INDEX TO ADVERTISERS—22 May 1964

Addison-Wesley Publishing Co., Inc. 942	Gow-Mac Instrument Co 1053	Packard Instrument Co., Inc 95	-
Ainsworth, Wm., & Sons, Inc. 1073	Hacker, William J., & Co., Inc. 1066	Parr Instrument Co. 105	
Air Products and Chemicals Inc. 1054	Hotpack Corp 1061	Perkin-Elmer Corp. 106	
Aloe Scientific	Hydor Therme Corp. 1075	Philips Electronic Instruments 104	
American Optical Co. 1080	Hyland Laboratories 1055	Phipps & Bird, Inc. 99	-
American Sterilizer Co 921	Tiyland Laboratories 1033	Phoenix Precision Instrument Co 107	
ANS, Inc. 940	Instrumentation Associates, Inc 1068	Photovolt Corp. 106	
Applied Physics Corp. 933	International Equipment Co 941	Picker X-Ray Corp. 92	
Atomic Energy of Canada Ltd 944	Instruments for Research and	Professional Tape Co., Inc. 107	U
	Industry		
Baker, J. T., Chemical Co 948, 949	T7 141 1 T 40W4	Radiation Instrument Development	
Baird-Atomic, Inc 936, 955 1079	Keithley Instruments 1074	Laboratory, Div. Nuclear-Chicago	
Bausch & Lomb Inc 938	Keystone Plastics Co. 1051	Corp 92	
Beckman Instruments, Inc 914, 939	Klett Manufacturing Co., Inc. 1066	Rochester Scientific Co., Inc. 107	2
Bellco Glass Inc. 1049	Lab-Line Instruments, Inc. 915	O T / 105	. ,
Bronwill Scientific 1071	Laboratory Construction Co 1057	Sage Instruments, Inc. 105	
	LaPine Scientific Co. 920	Sargent, E. H., & Co	
Coleman Instruments, Inc. 926, 927	Lea & Febiger 1050	Savant Instruments, Inc. 105	
Consolidated Electrodynamics 1066	Leitz, E., Inc. 956	Scientific Glass Apparatus Co. Inc. 106	-
Cooke, Troughton & Simms, Inc. 1058	LKB Instruments Inc. 1051, 1069	Scientific Industries Inc. 106	
Coors Porcelain Co. 1050	Lockheed Electronics Co. 935	Sigma Chemical Co. 107	
Cosmic Radiation Labs., Inc. 922	London Co	Sigmamotor Inc. 105	,5
	7. d 0 40	Torsion Balance Co 91	9
Delmar Scientific Laboratories, Inc. 1070	Matheson Scientific 946		
Difco Laboratories 1051	Mercer Glass Works Inc. 1061	Unitron Instrument Co 92	23
Digital Equipment Corp 918	Mettler Instrument Corp. 1062	U.S. Stoneware 105	
Dillon, W. C., & Co., Inc. 1059	Monroe Calculating Machine Co.,		_
•	Inc 931	Vanguard Instrument Corp 92	24
E-C Apparatus Corp 1055, 1069	Nalge Co., Inc	VirTis Co., Inc. 95	
Electrothermal 934	Nester/Faust Manufacturing Corp. 1075	VII 215 COI, 1110	•
Elgeet Optical Co., Inc. 932	New Brunswick Scientific Co., Inc. 937	Welch Scientific Co 99)=
European Atomic Energy	New England Nuclear Corp 943	Worthington Biochemical Corp. 104	_
Community	Northern Scientific Inc. 925	Wild Heerbrugg Instruments, Inc. 106	
	A TOLUNDAR DETERMINE THE	THE ELECTRICAGE THEOREMICHTS, THE IN	ر,

PERSONNEL PLACEMENT

CLASSIFIED: Positions Wanted. 25¢ per word, minimum charge \$4. Use of Box Number counts as 10 additional words. Payment in advance is required.

COPY for ads must reach SCIENCE 2 weeks before issue date (Friday of every week).

before issue date (Friday of every week).

DISPLAY: Positions Open. Rates listed below—no charge for Bax Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Minimum ad: 1 inch. Ads over 1 inch will be billed to the nearest quarter inch. Frequency rate will apply only to repeat of same ad. No copy changes. Payment in advance is required except where satisfactory credit has been established. Send copy for display advertising to SCIENCE, Room 1740, 11 West 42 St., New York 36.

\$65.00 per inch 60.00 per inch Single insertion 4 times in 1 year

For PROOFS on display ads, copy must reach SCIENCE 4 weeks before date of issue (Friday of every week).

Replies to blind ads should be addressed as follows:

Box (give number) SCIENCE 1515 Massachusetts Ave., NW Washington, D.C. 20005

POSITIONS WANTED

(a) Biology Ph.D., Cytology minor, 4 yrs univ. teach exp; desires academic appointment. (b) Chemistry Ph.D.; drug and medical research exp; prefers drug firm or clinical research position. For details write Woodward Medical Personnel Bureau, 185 N. Wabash, Chicago 60601.

Writer-Editor. Ph.D., social science. Accepts quality assignments. Principles of confidentiality, professional competence observed. Box 415, SCIENCE.

POSITIONS WANTED

Stimulating, imaginative teacher. Experienced in variety of courses—physiology, genetics, micro-organisms, histology, invertebrate, general biol-ogy. Publications. Research. Desires progressing school near adequate library. Box 417 SCIENCE. X

Translator. German/English, experienced in medical literature, accepts free-lance assignments. Reasonable fees. Please write Box 4K, 67-25 Dartmouth Street, Forest Hills, 75, N.Y.

POSITIONS OPEN HISTOCHEMIST

Experimental Morphologist, Ph.D. or equivalent. Active research program in enzyme and electron histochemistry. Opportunity for training in electron microscopy. Salary commensurate with qualifications. Hospital-affiliated research institute, New York.

Box 416, SCIENCE

Predoctoral Assistantships and Traineeships in Physiology. Excellent opportunities for graduate students leading to the Ph.D. Ample stipends and free tuition. Training and research in biophysics, cellular physiology, endocrinology, muscle, water metabolism, cardiovascular, gastrointestinal and environmental physiology. Write for details to Head, Department of Physiology, University of Illinois at the Medical Center, Chicago, Illinois.

Recently organized Publishing Company is preparing to publish outlines and handbooks on scientific and technological subjects on college, postgraduate, and in plant training levels. It would like to have associated with it on a part-time basis, several qualified persons to serve as editor in chief and associate regional editors. Quality of attracting manuscripts desirable but not essential factor. Write giving qualifications and stating remuneration desired. Sevin Publishing Corp., 70 Middle Neck Road, Great Neck, N.Y.

POSITIONS OPEN

Biochemist GS-9

Biochemist Gary

(\$7260 to \$9330), requiring B.A. or M.S. degree and laboratory research experience. Experience in the use of radioisotopes in medical research helpful. Send application and résumé to

Personnel Officer

V.A. Hospital

Brooklyn, New York 11209

WESTERN AUSTRALIA STATE PUBLIC SERVICE DEPARTMENT OF AGRICULTURE VERMIN CONTROL BRANCH

Biologist-Grade 3 or Grade 2 (Permanent) Salary Range: £A1450 to £A2313 or £A2376 to £A2691 (gross) per annum according to qualifications and experience.

Qualifications: A degree in science with a major in zoology or in agricultural science with postgraduate zoological experience or equivalent.

Duties: Under direction of Chief Vermin Control Officer, undertake biological work on the natural history, bionomics, ecology and physiology of pest or potential pest animals and birds.

Headquarters originally Perth, but appointee must be prepared to spend long periods in the field or, if necessary, be transferred to another center within the state.

center within the state.

Transport: Reasonable amount allowed for transport of appointee and dependent family to Western Australia provided bond entered into to serve State for period of 3 years.

Conditions of Service: Superannuation benefits, 3 months' long service leave after 7 years' continuous service, cumulative sick leave entitlements and other general conditions applicable to permanent public servants. Applications stating age, qualifications and experience should be addressed by 31 July 1964 to:

Public Service Commissioner, 184 St. George's Terrace, Perth, Western Australia.

POSITIONS OPEN

Graduate assistantships and research associates in Tropical Medicine and Medical Parasitology are available beginning September 1964. Salary ranges from \$2400 to \$3000. Course and research activities leading to the M.S. or Ph.D. are available. Departmental research activities include studies on the ultrastructure, immunology, and biochemistry of endoparasites. Interested applicants should apply to Dr. J. C. Swartzwelder, Chairman, Department of Tropical Medicine and Medical Parasitology, Louisiana State University School of Medicine, 1542 Tulane Avenue, New Orleans 12, Louisiana.

SENIOR PHARMACOLOGIST

HAZLETON LABORATORIES, a leading dependent company specializing in the Life HAZLETON LABORATORIES, a leading independent company specializing in the Life Sciences, needs a Senior Pharmacologist (Ph.D.) with a minimum of 5 years of industrial experience preferred. Position involves design, coordination and evaluation of interdisciplinary research programs; liaison with clients and federal regulatory agencies. Opportunity for scientific meetings attendance and publications. Liberal employee benefit programs including, profit sharing. Salary commensurate with experience and degrees. Please send résumé to: K. T. Paynter, Personnel Manager



HAZLETON LABORATORIES, INC.

P.O.Box 30 Falls Church, Virginia (Suburban Washington, D.C.)

An Equal Opportunity Employer

Challenging Opportunity

To head Research & Development team with expanding, leading manufacturer of enzymes and fine organic chemicals.

To develop new enzyme systems for pharmacy and industry. 3-4 yrs. experience in enzyme and protein chemistry. Area of activities encompasses all phases of enzymology.

Excellent salary plus long range growth prospects. Top company benefits. Relocation assistance offered.

> For further details write in confidence to MR. VOY RISINGER, Personnel Supervisor

WALLERSTEIN CO.

Division,

Baxter Laboratories, Inc. STATEN ISLAND, N.Y., 10303 POSITIONS OPEN

(a) Biochemist, carbohydrates and lipids exp. to conduct diabetes research at large clinic; Calif; \$15,000. (b) Pharmacologist, teach and research at state college, develop. new grad. program; MidW; open. (c) Virologist, R&D anti-viral chemotherapeutic agents for leading chemical mfr; E; new Ph.D. \$10-11,000; more for exp. (d) Pharm. Chemist, research w. growing drug specialty mfr; SW; \$10-12,000. (e) Bacteriologist, research-teaching at 900-bed univ. hosp; E; \$10-13,000. (f) Microbiologist, new modern 400-bed hosp; teach-supv. duties, research opp; MidW; to \$11,500. (g) Biochemist, direct dept. in 350-bed hosp, teach lab. techs; MidW; \$10-12,000. for details of our nationwide positions at B.S., M.S., Ph.D., M.D. levels write Woodward Medical Personnel Bureau, 185 N. Wabash, Chicago 60601.

Professional Placement Service for 68 Years

Full-time Researchers in the fields of internal medicine, biochemistry and physiology desired for research-teaching proin continuing education. Salary \$25,000 to \$30,000 per annum.

Box 367. SCIENCE

Ph.D., physical or analytical chemist, liberal arts college. Dean, Webster College, St. Louis, Mo. 63119.

PHYSICIST

FOR theoretical and exploratory research at senior levels in expanding research group. Preferably Ph.D. with 5 years' experience. Background and interest in infrared, microwave, visible and ultraviolet spectra and their application to photogrammetry and remote measurement. Location new modern research center in suburban Oklahoma City. Contact: Employment Office, Kerr-McGee Oil Industries, Inc., Kerr-McGee Building, Oklahoma.

An equal concrumity employer.

An equal opportunity employer

PHARMACOLOGIST

Challenging opportunity with Shell in California for recent Ph.D. graduate or experienced M.S. to assist in planning and organizing a comprehensive pharmacology program for critically evaluating a wide variety of novel synthetic chemicals with classical and advanced pharmacodynamic techniques.

Liberal employee benefits. Please send qualifications to:

> J. P. Davey Agricultural Research Division Shell Development Company P. O. Box 3011 Modesta, California 95353

> An Equal Opportunity Employer

COURSES

LABORATORY COURSE IN ELECTRON MICROSCOPY OF BIOLOGICAL MATERIALS. July 6-24, University of California, Berkeley. Basic techniques and recent advances. Participants will undertake individual research in their fields of interest. Fee \$400 including materials. Details from: Engineering and Sciences Extension, University of California, Berkeley, California 94720; telephone 845-6000 (area code 415), ext. 4151, Mr. Patterson.

FELLOWSHIPS



CANCER RESEARCH TRAINEE FELLOWSHIP, M.D. or Ph.D. Available July 1, 1964—Baylor University Medical Center, Dallas, Texas 75246. \$6600 per year. Contact Dr. George J. Race or Dr. John T. Mallams.

Research Fellowships for predoctoral students are available at Northeastern University, Boston, for studying molecular lipoid membranes in aqueous solution, leading to a Ph.D. degree in chemistry. Applicants must have a master's degree or at least 1 year of successful graduate work. Stipends are \$3500, plus free tuition. These stipends are for 12 months, including a month's vacation. H. T. Tien, Department of Chemistry, Northeastern University, Boston, Massachusetts 02115.

The Market Place

BOOKS • SERVICES • SUPPLIES • EQUIPMENT

DISPLAY: Insertions must be at least 1 inch in depth. Weekly invoices will be sent on a charge account basis—provided that satisfactory credit is es-

Single insertion 4 times in 1 year 13 times in 1 year 26 times in 1 year

PROOFS: If copy is to be set, and proofs submitted for approval, complete copy and cuts must be received 4 weeks in advance of issue date (Friday of each week); complete plates no later than 3 weeks in advance of issue date.

SUPPLIES AND EQUIPMENT

LABORATORY EFFICIENCY TUL & CONTROL

Ident-A-Band° ANIMAL IDENTIFICATION

Easy to apply * Easy to read Write today for free samples

HOLLISTER®

835 N. Orleans St., Chicago 10, III.

HYPOPHYSECTOMIZED RATS

Shipped to all points via Air Express
For further information write HORMONE ASSAY LABORATORIES, Inc.

8169 South Spaulding Ave., Chicago 29, III.

1919 - 1964 LaMotte Chemical Chestertown, Maryland, U.S.A. Specialists in Colorimetric Techniques Reagents-Standards-Comparators Send for illustrated

Controls Handbook Dept. H

For Sale: Beckman GC-2 Gas Chromatograph, with hydrogen flame accessory (Beckman No. 104000), fraction collector assembly (No. 28890) and 2-column value (No. 23800) plus assorted columns. Total value over \$3,200.00. All in good working order, some parts never used. Priced at \$1,600.00. Located in New England area. Box 418 SCIENCE.

See the NEW B/A Flame Photometer

The new Baird Flame Photometer has an exclusive design which permits the *combined* versatility of either clinical or research analysis of Na and K. The Model KY-2 combines direct readout in the clinical range and a null-balance mode for research studies.

Improved electronic circuitry provides more stable operation. A new d.c. power supply increases efficiency and prolongs the useful life of the photomultiplier detectors. The KY-2 is easy to standardize, simple to operate. Determine Na and K from a single sample — thus save time, cut glassware costs, eliminate tedious handling.

- Direct meter readout in milliequivalents per liter for routine clinical analysis.
- Null-indicating mode for research studies of Na and K in a wide range of concentrations.

- Double beam principle lithium internal standard.
- Simultaneous single sample determinations.
- Reproducibility: 0.5%.
- Choice of atomizer gravity-feed or new aspirator type.

Price \$985. Write today for new brochure.

Scientists: Investigate challenging opportunities with Baird-Atomic. Write Industrial Relations Director. An equal-opportunity employer.







NEW CRYOSTAT MICROTOME

The AO CRYO-CUT Adds New Comfort and Convenience to Frozen Sectioning

The new AO Spencer CRYO-CUT Microtome offers many exclusive performance and convenience features to make frozen sectioning easier, more routine and more precise than ever before possible. Fresh tissue to finished slide takes only a few minutes and the time-proved mechanism of the AO Rotary Microtome assures uniform, undistorted sections for more definitive pathologic diagnosis.

You can sit down comfortably at the new CRYO-CUT. There's plenty of leg and foot room. The feed and cutting controls are *both* external and within easy reach. Convenient external temperature settings let you select operating temperatures within range of -10° to -30°C. A completely automatic

control unit maintains the selected temperature to within ± 1 °C.

A unique anti-roll device provides flat, uncurled sections for quicker, easier sectioning and mounting. A clear plastic breath shield prevents specimen warming or frosting of specimen and knife to assure more efficient sectioning.

Easily accessible valve allows rapid defrost. A convenient drain is in front of unit and accommodates a disposable plastic bag for catching water and waste materials.

There are many more outstanding performance and safety features. Write for complete information or ask your AO Sales Representative for a demonstration.

	Dept. E-4	
	Gentlemen:	
American Optical	Please send i	information on AO Spencer CRYO-CUT, a demonstration.
COMPANI	Name	
INSTRUMENT DIVISION, BUFFALO 15, NEW YORK	Address	
	City	ZoneState