

from Superintendent of Documents, Washington, D.C.). 598 pp. Illus. \$4.50.

**Traité de Paléobotanique.** vol. 2, *Bryophyta, Psilophyta, Lycophta*. Edouard Boureau, Ed. Masson, Paris, 1967. 845 pp. Illus. 340 F.

**Twins and Supertwins.** Amram Scheinfeld. Lippincott, Philadelphia, 1967. 292 pp. Illus. \$6.95.

**Ultrastructure of the Kidney.** Albert J. Dalton and Françoise Haguénau, Eds. Academic Press, New York, 1967. 252 pp. Illus. \$14. *Ultrastructure in Biological Systems*, vol. 2. Five papers.

**Unified Theory of Nuclear Models and Forces.** G. E. Brown. North-Holland, Amsterdam; Interscience (Wiley), New York, 1967. 271 pp. Illus. \$9.25.

**The Urgent Future: People, Housing, City Region.** Albert Mayer. McGraw-Hill, New York, 1967. 198 pp. Illus. \$16.50.

**Vacuum Microbalance Techniques.** vol. 6. Proceedings of a conference (Newport Beach, Calif.), October 1966. A. W. Czanderna, Ed. Plenum Press, New York, 1967. 192 pp. Illus. \$12.50. Thirteen papers.

**Value Engineering in Manufacturing.** John W. Greve. Prentice-Hall, Englewood Cliffs, N.J., 1967. 284 pp. Illus. \$10.50.

**Variable Phase Approach to Potential Scattering.** F. Calogero. Academic Press, New York, 1967. 256 pp. Illus. \$11.50.

**Vision and Eye.** M. H. Pirenne. Chapman and Hall, London; Barnes and Noble, New York, 1967. 240 pp. Illus. Paper, \$4.75; cloth, \$9.

**Vorträge zum Festkolloquium Anlässlich des 65. Geburtstages von P. A. Thiesen.** Akademie-Verlag, Berlin, 1966. 103 pp. Illus. Paper, 16. *Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin*.

**Water Quality Criteria.** First national meeting (Philadelphia), September 1966. American Soc. for Testing and Materials, Philadelphia, 1967. 126 pp. Illus. Paper, \$5.50. Ten papers.

**Wave Mechanics.** H. T. Flint. Methuen, London; Barnes and Noble, New York, 1967. 160 pp. Illus. Paper, \$2.35; cloth, \$4.50.

**Women and the Scientific Professions.** M.I.T. Symposium, October 1964. Jacquelyn A. Mattfeld and Carol G. Van Aken, Eds. M.I.T. Press, Cambridge, Mass. 1967. 268 pp. Paper, \$2.50. Twelve papers.

**World List of Scientific Periodicals.** Scientific, medical and technical entries from the British Union-Catalogue of Periodicals. Kenneth I. Porter, Ed. Butterworths, London, 1966. 136 pp.

**Yearbook of Physical Anthropology 1965.** Santiago Genovés T., Ed. Published for the American Association of Physical Anthropologists. Instituto de Investigaciones Históricas and Instituto Nacional de Antropología e Historia, Mexico 7, D.F., 1967. 286 pp. Illus. Paper, \$4.50. Yearbook Series, vol. 13. Fifteen papers.

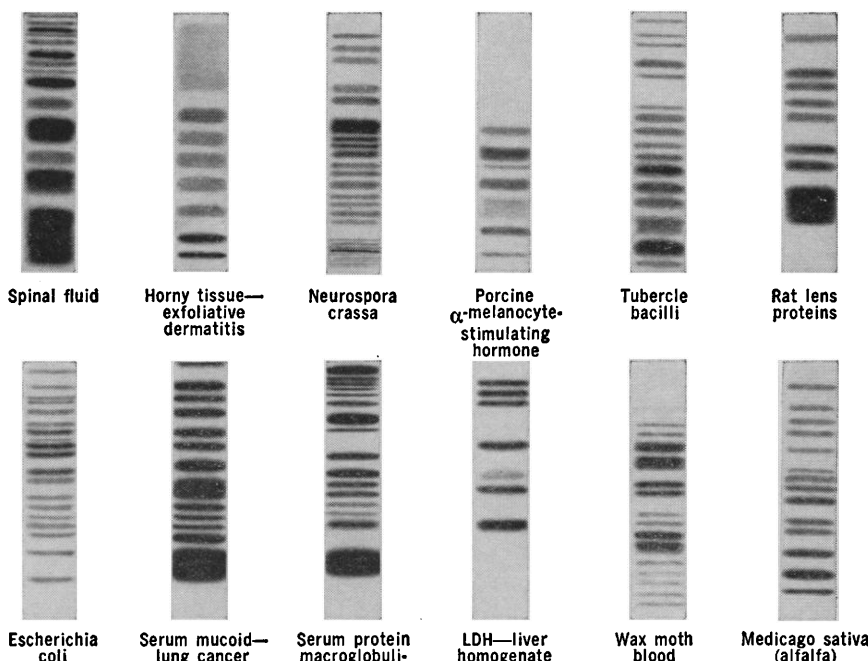
**Yield-Line Analysis of Slabs.** L. L. Jones and R. H. Wood. Elsevier, New York, 1967. 405 pp. Illus. \$15.75.

**Zoonoses of Primates: The Epidemiology and Ecology of Simian Diseases in Relation to Man.** Richard Fiennes. Cornell Univ. Press, Ithaca, N.Y., 1967. 200 pp. Illus. \$6.50.

Where the finest separation, analysis and purity evaluation of protein systems is being carried out...

# DISC ELECTROPHORESIS

is in the act.



Copyright 1965 Canal Industrial Corp.

Now in use in more than 2000 laboratories, Disc Electrophoresis offers unequalled sensitivity (to 0.01 microgram), speed (separation in 10-30 minutes), simplicity and reproducibility. Disc Electrophoresis is applicable to almost every area of protein research and clinical investigation, improving over separations by other methods and giving new separations never before possible by any technique.

In Disc Electrophoresis, migration of sample substances through specially prepared columns of polyacrylamide gel produces exceptionally sharp bands of isolated fractions, "stacked" in disc-like zones as little as tens of microns thick. A random sample of the recent literature reporting uses of Disc Electrophoresis includes:

**SOURCES:** Amoebae, *E. coli*, flu virus, micobacteria, *neurospora*, polio virus, ribosomes, slime mould, *staphylococci*, *tubercle bacilli*; algae, cats, cattle, dogs, earthworms, fish, guinea pigs, hamsters, horses, humans, insects, lobsters, mice, pigs, plants, quail, rabbits, rats, sea urchins, sheep, snails, squid; tissue extracts of aorta, brain, horny tissue, kidney, lens, muscle, pancreas, parotid, pituitary, skin, thymus, thyroid; fluids such as axoplasm, blood, cerebrospinal fluid, milk, pancreatic juice, saliva, sperm, umbilical cord serum, urine and uterine fluid.

**SUBSTANCES SEPARATED:** Proteins, including C-reactive proteins, glycoproteins, mucoproteins, nucleic acids, nucleo-proteins and thyroxin-binding proteins; hemoglobins and haptoglobins; globulins, histones, human and bovine growth hormones, ovine follicle stimulating hormone, human chorionic gonadotropin, enterotoxins, Hageman factor,  $\alpha$ -crystallin, collagen, diglyceride and prolactin; amylase, aminopeptidase, phosphatases;  $\beta$ -galactosidase, carbonic anhydrase, carboxypeptidase, dehydrolipamide dehydrogenase, glycogen phosphorylase, lipase, lactic and malic dehydrogenase, Phosphorylase, ribonuclease, sialidase, transaminase and transpeptidase.

**DIAGNOSIS OF:** Acute schizophrenia, cancer of the breast and lung, glomerulonephritis, liver pathology, lupus erythematosus, macroglobulinemia, milk allergy, myeloma, myocardial infarction, nephrosis, normal and abnormal pregnancy, pneumonia, primary tumor sites, rheumatic fever, sickle cell anemia, thalassemia, tuberculosis and uremic-hemolytic syndrome.

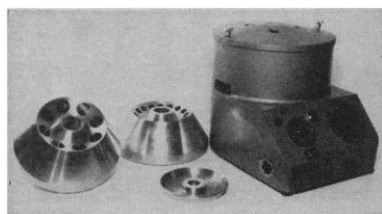
See how you can apply the benefits of Disc Electrophoresis to your own research. Send now for complete information, including bibliography, without cost or obligation. Write



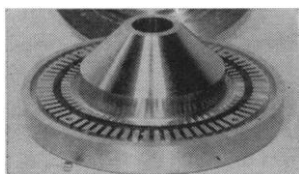
**CANAL INDUSTRIAL CORPORATION**  
5635 Fisher Lane Dept. S-10D  
Rockville, Maryland 20852/(301) 427-1515

Sales and Service Offices in • Boston • Houston • New York • Chicago  
• Los Angeles • Pittsburgh • Washington, D.C. • Cincinnati • St. Louis • Toronto  
• Cleveland • Minneapolis • San Francisco • Denver • Philadelphia • Ottawa

# CENTRIFUGE

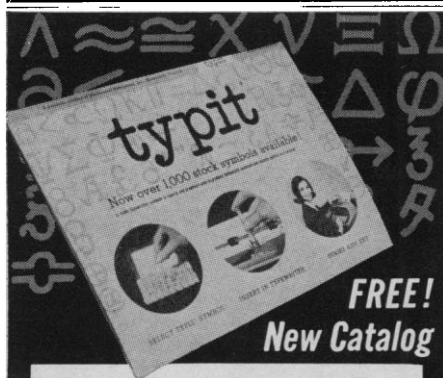


The CSI High Speed Angle Centrifuge gives the laboratory worker a reliable and modern high speed centrifuge with maximum safety and flexibility by its unit design and interchangeable standard rotors. The housing construction acts as a shield and the cover is screwed down for added protection. Particular attention has been given to ease of sterilization and simplicity of operation. One rotor for performing centrifugal accelerations tests on transistors and semi-conductor products is shown below. Rotors are available in 4, 6 or 8 place and 48 to 180 cavity rotors depending on transistor size. (Pat. No. 2,699,289).



Brochure and price upon request.

**Custom Science Instruments, Inc.**  
P.O. Box A Whippany, N.J. 07981



More than 1,000 Typit symbols  
the perfect, inexpensive way to

**TYPE ANY SYMBOL**  
perfectly in 4 seconds

Send for more information today

**typit**® manufactured by  
mechanical enterprises, Inc.

3127 Colvin St., Alexandria, Va., Dept. 1610B

☐ Please send free catalog.

☐ Give me a demonstration soon  
at no obligation.

Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

## INDEX OF ADVERTISERS—6 October 1967

Ainsworth	34	Maryland Plastics, Inc.	155
American Optical Co.	184	Mechanical Enterprises, Inc.	178
American Sterilizer Co.	23	Mech-Tronics Nuclear Corp.	50
Amicon Corp.	154	Melabs, Scientific Instruments Dept.	38
Bausch & Lomb	163	Metaloglass, Inc.	167
Beckman Instruments, Inc.	54	Mettler Instruments Corp.	3
Bel-Art Products	168	Millipore Corp.	157
Bellco Glass Inc.	172	New Brunswick Scientific Co.	12
Brinkmann Instruments	158	Nuclear-Chicago Corp.	48, 50
Buchler Instruments, Inc.	153	Nuclear Data Inc.	22
Canal Industrial Corp.	173, 177	Olin Mathieson Chemical Corp.	30
Carworth, Div. of Becton, Dickinson and Co.	8	Olympus Corporation of America	39
Charles River Laboratories Inc.	152	Oxford University Press	173
Clay-Adams	31	Paillard Inc.	42
Coleman Instruments	28	Percival Refrigeration & Mfg. Co.	160
Coors U.S.A.	156	Perkin-Elmer Corp., Instrument Div.	52
Custom Science Instruments, Inc.	178	Pharmacia Fine Chemicals Inc.	48
Digital Equipment Corp.	21	Philips Electronic Instruments	33
Dimco-Gray Co.	160	Phipps & Bird, Inc.	164
Du Pont Co.	11	Photo Research Corp.	180
Eberbach Corp.	176	Photovolt Corp.	173
E-C Apparatus Corp.	2, 160, 174	Plenum Publishing Corp.	179
Economics Laboratory, Inc.	29	Precision Scientific Co.	10
E & M Instrument Co., Inc.	157	Professional Tape Co., Inc.	161
Electro Scientific Industries	150	Reeve Angel	14
Eon Corp.	174	Research, Inc.	171
Farrand Optical Co., Inc.	180	Revco Inc.	153
Federal Pacific Electric Co.	152	Sage Instruments, Inc.	169, 175
Fish-Schurman Corp.	93	Sargent, E. H., & Co.	25
Fisher Scientific Co.	36	Savant Instruments, Inc.	18
Forma Scientific Inc.	159	Scientific Glass Apparatus Co., Inc.	166
Gelber Pump Co.	171	Scientific Products, Div. of American Hospital Supply Corp.	24
Hacker, William J., & Co., Inc.	175	Sherer Gillett Co.	171
Harford Metal Products, Inc.	159	Sigma Chemical Co.	179
Heath Co.	35	Sigmamotor, Inc.	153
Hewlett-Packard	9, 37	Sobotka, Eric, Co., Inc.	156
Honeywell	32	Sorvall, Ivan, Inc.	19
Hotpack Corp.	154	Technical Measurement Corp.	17
Hyland Div., Travenol Laboratories	167	Technicon Corp.	41
Hydor Therme Corp.	164	Tektronix, Inc.	20
IBM Corp.	46	Tenney Engineering, Inc.	157
Instrumentation Associates, Inc.	176	Thermolyne Corp.	170
Instrumentation Specialties Co., Inc.	147	Tracerlab	149
International Chemical & Nuclear Corp., Nuclear Science Div.	150	Tri-R Instruments, Inc.	94
Kirschner Manufacturing Co.	167	Unitron Instrument Co.	49
Klett Manufacturing Co., Inc.	160	Varian, Vacuum Div.	170
Koch, George, Sons, Inc.	161	Victoreen Instruments Div.	43
Kontes	158	Wang Laboratories, Inc.	40
Labindustries	44, 45	Waring Products Co.	183
Laboratory for Electronics	148	Whittaker Corp., Gencom Div.	162
Lauda, Div. of Brinkmann Instruments, Inc.	13	Wild Heerbrugg Instruments, Inc.	151
Leitz, E., Inc.	26, 27	Wilkens-Anderson Co.	162
LKB Instruments Inc.	51	Williams & Wilkins Co.	165
Lourdes	16	Worthington Biochemical Corp.	15
		Yellow Springs Instrument Co.	168
		Zeiss, Carl, Inc.	6

"This volume and those to follow, should prove to be an invaluable source of information to every scientist and engineer, with a scope of knowledge humanly impossible to master for any one individual or any group of individuals."

—From the Preface

# thermophysical properties research literature retrieval guide

second revised edition

edited by **Y. S. Touloukian**

technical editor: **J. K. Gerritsen**

coordinating editor: **N. Y. Moore**

*Members of the Thermophysical Properties Research Center,  
Purdue University, Lafayette, Indiana*

*With a Foreword by Guy Waddington, Director, Office of Critical  
Tables, National Academy of Sciences, National Academy  
of Engineering, National Research Council*

*With a Preface by Y. S. Touloukian, Director, Thermophysical  
Properties Research Center*

Revised and expanded by the editors exclusively for the  
Plenum Press edition.

"The editors and staff of TPRC are to be congratulated for devising, producing, and maintaining a valuable and unique tool for the engineer, research scientist, compiler, and technical librarian."

—Guy Waddington, from the Foreword

The set of three books which constitutes the *Thermophysical Properties Research Literature Retrieval Guide* makes it possible for an individual scientist or engineer, working in his office, to quickly search the contents of world journals, reports, and books for references to articles containing information on seven groups (thermal conductivity, specific heat at constant pressure, viscosity, thermal radiative properties, diffusion coefficient—permeability, thermal diffusivity, Prandtl number) of specified thermophysical properties (13 properties) of all substances. This unique volume, the most recent publication of the monumental series, brings to more than 45,000 the number of substances reported and to almost 140,000 the number of reference entries. This rich mine of information guides the user to essentially all of the useful data in the scientific literature of the world for the 13 properties of interest.

BOOK 1: 819 PAGES

BOOK 2: 625 PAGES

BOOK 3: 1315 PAGES

PP.

NOVEMBER 1967

\$275.00

**consultants bureau/plenum press**

Divisions of Plenum Publishing Corporation  
227 W. 17th ST., NEW YORK, NEW YORK 10011

6 OCTOBER 1967



MORE ENZYMES FROM OUR \$1,000,000 PLANT

## GLYOXALASE I

From Yeast

Substantially free of Glyoxalase II

Solution in 50% Glycerol—0.4M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

One unit of activity will condense 1  $\mu$ Mole of Methylglyoxal and Reduced Glutathione per minute at pH 6.6 at 25°C.

Type I		Type III	
Activity: approx. 400-600 units per mg protein		Activity: approx. 200-300 units per mg protein	
1 mg	\$ 12.50	1 mg	\$ 5.00
5 mg	47.50	5 mg	19.00
25 mg	187.50	25 mg	75.00

## ENOLASE

Lyophilized Powder From Yeast

This yeast enzyme has double the specific activity of the Muscle enzyme (which is still available if wanted). Cost per unit of activity is also much lower.

Activity	Type III Price based upon gross weight
Approx. 60 $\mu$ Molar units per mg protein	
One $\mu$ Molar unit will convert one $\mu$ Mole of D(+)-2-Phosphoglycerate to Phospho(enol) Pyruvate per minute at pH 7.4 at 25°C.	10 mg \$ 5.00 50 mg 16.20 100 mg 27.00
Approx. 0.8 mg protein per mg of powder.	250 mg 54.00
Contains Tris Buffer.	500 mg 90.00

## PHOSPHOHEXOSE ISOMERASE

CRYSTALLINE, from Yeast  
Ammonium Sulfate Suspension

Activity	Grade III
1 mg will convert approx. 400-500 $\mu$ Moles of Fructose-6-phosphate to Glucose-6-phosphate per minute at pH 7.4 at 25°C (equivalent to a conversion of approx. 400-500 $\mu$ Moles of G-6-P to F-6-P per minute at pH 7.4 at 37°C).	2 mg \$ 4.00 10 mg 16.25 100 mg 135.00
	Note the unit price reduction of approx. 25%.

ORDER DIRECT TELEPHONE COLLECT  
from ANYWHERE in the WORLD

Day, Station to Station, PROspect 1-5750

Night, Person to Person,

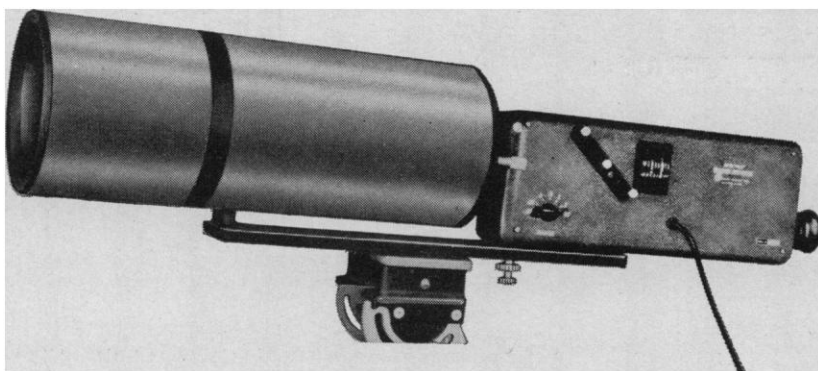
Dan Broida, WYdown 3-6418



TWX (Teletype) Day or Night: COLLECT-314-556-0594  
TELEGRAM: SIGMACHEM, St. Louis, Missouri

The Research Laboratories of  
**SIGMA** CHEMICAL COMPANY  
300 DE KALB ST. • ST. LOUIS, MO. 63118 • U.S.A.  
MANUFACTURERS OF THE FINEST BIOCHEMICALS AVAILABLE

Distributed in the United Kingdom through  
SIGMA LONDON Chem. Co. Ltd., 12, Lettice St., London, S.W.6, Eng.  
Phone RENown 5823 (Reverse Charges)



## **SPECTRA® Cassegrain Objective for Pritchard Photometer**

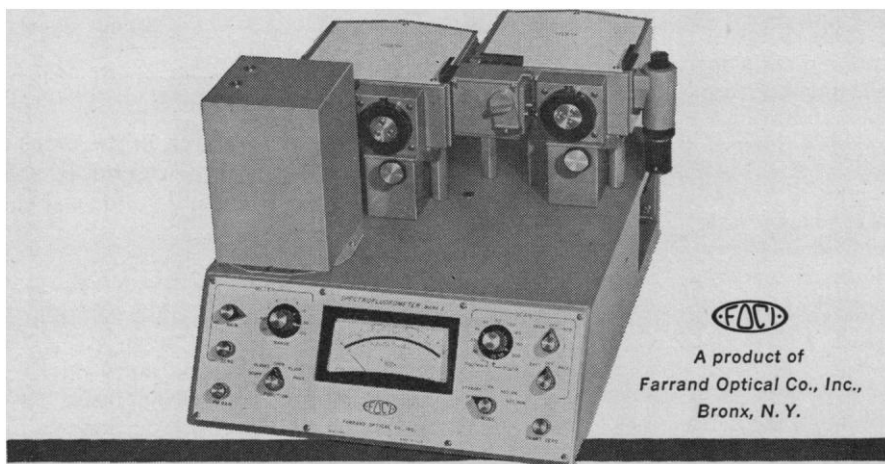
The SPECTRA CASSEGRAIN OBJECTIVE is a further refinement that permits the already wide range of the PRITCHARD PHOTOMETER to be extended to measure fields from 10 minutes to 10 seconds of arc.

Write Today for Complete Information

PHOTOMETRIC SERVICES AVAILABLE

**PHOTO METRIC RESEARCH corp.**  
Karl Freund, president "Photometric Instruments for Science and Industry"

837 No. Cahuenga Blvd. • Hollywood, California 90038 • (213) 462-6673 • Cable: Spectra



**If you demand Ultra-Sensitivity, Exceptional Resolution, and Unmatched Quality—explore the many fine features and the attractive price of the NEW Farrand MK-1 SPECTROFLUOROMETER**

**SENSITIVITY**—Full scale for 0.0001  $\mu$ g quinine sulfate / ml.

**RESOLUTION**—1 m $\mu$  with standard gratings.

**COMPATIBLE**—with most chart drive and X-Y recorders and oscilloscopes.

**NEW COMPACTNESS AND MANY ACCESSORIES.**

Direct inquiries to:

**Farrand OPTICAL CO., INC.**  
COMMERCIAL PRODUCTS DIVISION  
535-SR So. 5th Avenue, Mt. Vernon, N. Y. 10550  
(914) 668-9393/Cable Address: FOCIUS NY

## **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. Send copy for position wanted ads to:

**SCIENCE**  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005

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

**DISPLAY: Positions Open.** Rates listed below—no charge for Box 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

Single insertion \$75.00 per inch  
4 times in 1 year 70.00 per inch

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**

**Anatomist, M.S.** Teaching experience in gross anatomy, neuroanatomy histology, in American medical school. Seeks academic teaching position in professional or undergraduate college. Can start immediately, Box 572, **SCIENCE**.

10/13, 21

**M.S. Pharmacology** background. Literature searching and abstracting. Desires same. Box 566, **SCIENCE**.

9/29; 10/6

**Microbiologist, Virologist** Ph.D. Teaching/research experience. Animal and bacterial virus research. Publications. Box 573, **SCIENCE**. X

(a) **PHYSIOLOGY** Ph.D.; M.D.; Electronics training; Clinical and Experimental Physiology, Cardiovascular studies; development research instrumentation; prefers research, clinical, teaching position. (b) **BIOCHEMISTRY** Ph.D.; 1967, Nutrition, Organic Chemistry minors; metabolism of Carbohydrates, Lipids, Proteins research; seeks product development, quality control appointment. Woodward Personnel Bureau, 185 North Wabash, Chicago 60601. X

### **POSITIONS OPEN**

#### **BACTERIOLOGIST**

A space-age assignment at the Spaceport of the world—Cape Kennedy! Here is an opportunity for a Bacteriologist with a degree and 2 or more years related experience to conduct a program to detect and identify unusual microorganisms in spacecraft prepared for interplanetary probes. Using bacteriological and biochemical procedures you will develop methods to reduce and control contamination to laminar flow work spaces. To arrange interview, send details of your education, experience and salary requirements to Mr. R. E. Arendas, Dept. 67K-1, Aerospace Services Division, Pan American World Airways, Inc., 750 S. Orlando Avenue, Cocoa Beach, Florida. An Equal Opportunity Employer, M&F.

## POSITIONS OPEN

### DVM

Diagnostic & Experimental Pathology

Salaries to \$20,000

Extensive expansion of research program of major company creates new positions. Participate in drug safety evaluation & research.

Submit resume in confidence to:

**KINGSLEY-QUINN LTD.**

Technical Search Consultants

55 West 42nd St., N.Y., N.Y. 10036

**Endocrinologist, Immunochemist or Physiologist—** Ph.D. with experience in bio and immunoassay for young, growing firm. Benefits incl. profit sharing and pension plans. Sal. open. Please send resume to: **Director, Biochemex Laboratories, P.O. Box 31, Elmont, N.Y. 11003.**

(a) **Microbiologist, M.S.** & (b) **Virologist, M.S.** to participate in clinical study of sterile environment in the treatment of leukemia. Large teaching & research center. Write to **Mr. H. Warrington, Personnel Dept., Maimonides Medical Center, 4802 Tenth Ave., Brooklyn, N.Y.**

### RESEARCH COORDINATOR

Hazleton Laboratories' Toxicology Division requires a Research Coordinator with a Ph.D. in Pharmaceutical, Analytical, or Biochemistry plus 3-5 years' experience. Candidate should have extensive knowledge of biology, research methodology and FDA regulations. Duties include design, coordination, and evaluation of animal toxicological research programs; liaison with clients and regulatory agencies. Excellent employee benefits program including profit sharing. Please send resume to: **Hall A. Acuff, Assistant Personnel Manager, HAZLETON LABORATORIES, INC., P.O. Box 30, Falls Church, Virginia 22046** (Metropolitan Washington, D.C.)

An Equal Opportunity Employer

### SENIOR IMMUNOLOGIST—Ph.D.

An excellent opportunity currently exists for a Ph.D. with 2 to 3 years experience in Immunochemistry. Position involves directing a basic research program aimed at new approaches to developing immuno-suppressant agents.

NATIONAL offers an excellent salary and complete benefits program with opportunity to grow and develop this area of research for NATIONAL. Please send your resume in complete confidence to:

J. DOUGLAS DIETRICH



**THE NATIONAL  
DRUG COMPANY**

Division of Richardson-Merrell, Inc.

4663 Stenton Avenue

Philadelphia, Pa. 19144

An Equal Opportunity Employer

## THE WORLD HEALTH ORGANIZATION, GENEVA invites applications for posts of SCIENTIFIC EDITOR AND WRITER

responsible for all stages of the processing of scientific manuscripts for publication, including assessment of material, checking for accuracy and consistency, ensuring clarity, concision and conformity with scientific and medical terminology, preparing tabular material, annexes, figures and bibliographies, and proof-reading. Also writing of unsigned scientific articles, introductions, publicity texts, etc.

**Qualifications:** University degree, preferably in medicine or in science, and the ability to write clearly and interestingly. English mother-tongue. Experience of editorial work.

Initial 2-year contract, with one year probationary period; initial salary US \$8,889 per year, net of national income taxes, rising by annual increments to US \$11,913, if work satisfactory; cost of living adjustment; dependents' allowance and children's education grant; health scheme; pension fund; paid home leave every two years; removal of household goods and personal effects to Geneva.

Short-listed candidates will be required to take a 7-hour written examination to be held at a place and time to be notified direct to applicants. Detailed curriculum vitae should be sent to Chief, Personnel, WHO, Geneva not later than 2 weeks after publication of this advertisement, quoting VN. 67/90. Only those candidates considered suitable will receive a reply.

## SENIOR PHARMACOLOGIST or TOXICOLOGIST

Arthur D. Little's Life Sciences Division needs a Senior Pharmacologist (Ph.D.) with 3 to 5 years of experience.

Position involves design, coordination and evaluation of inter-disciplinary research programs in cancer chemotherapy and experimental therapeutics. Will include liaison with commercial and federal clients.

Please direct resumes to Scott Carson.



**Arthur D. Little, Inc.**

RESEARCH • ENGINEERING • MANAGEMENT CONSULTING

20 Acorn Park

Cambridge, Massachusetts

## AUSTRALIAN ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT, LUCAS HEIGHTS NEAR SYDNEY

Applications are invited from interested Senior Scientists for the position of—

### HEAD, REACTOR CHEMISTRY SECTION \$8242—\$9490 (Aust.)

The Section is responsible for chemical research and development related to the nuclear power industry, with special reference to heavy water moderated reactors.

The Section is currently concentrating its efforts on—

- The chemistry of the moderator, including reactions with structural and cladding materials and radiation chemistry studies.
- Certain aspects of the chemistry of fuel cycles. The chemistry of trans-uranium elements, and the production of uranium dioxide fuel.
- Nuclear and radiochemistry measurements in support of reactor physics studies.
- Supporting research in the areas of theoretical and structural solid state chemistry and solid state and gaseous diffusion.

The Research Establishment is modern and well equipped; its facilities include a high flux research reactor, particle accelerators, substantial irradiation facilities and extensive physical-chemical instrumentation.

The Research Establishment is located in pleasant rural surroundings within a convenient distance from Australia's largest city.

Applicants should possess a Ph.D. in Chemistry or Chemical Physics or equivalent, with substantial research experience.

Application forms and further information may be obtained from the Atomic Energy Attaché, Australian Embassy, 1700 Massachusetts Ave., N.W., Washington, D.C. 20036.

## POSITIONS OPEN

**Biochemist, Ph.D.**, bright, recent graduate to work on macro-molecular control mechanisms of normal and tumor tissue in an active laboratory. Must be able to pursue problems without extensive supervision. Fully equipped modern laboratory and an experienced technician go with the position. For more details address inquiries to:

**Dr. John Laszlo, Dept. of Medicine, Duke Medical Center, Durham, North Carolina.**

**ELECTROMICROSCOPIST TECHNICIAN, B.S.** or M.S. or equivalent experience. Work with microorganisms and plant material. Salary \$644-\$783 month. **Personnel MB, UNIVERSITY OF CALIFORNIA, SAN DIEGO, P.O. Box 109, La Jolla, Calif. 92037.**

An Equal Opportunity Employer

**Electron Microscope Technician**—required at Roswell Park Memorial Institute, Biophysics Department. Physical or chemical background preferred. No previous biological experience required, but should be familiar with electron microscope operation. Work involves development of electron microscope equipment and high resolution studies on biological materials. Contact **Dr. D. F. Parsons, 886-2700, ext. 123.** Salary related to experience.

### INVITATION TO PROFESSIONAL CAREERS

(a) **ENZYMOLOGIST** air & water pollutants, environmental studies; \$20,000; industrial research firm; MidW. (b) **ASSOC. PROF. GENETICS**; teach & research; \$12,000; new science bldg; expdg. college; E. (c) **ASST. PROF.** research fiber optics use in dentistry; \$12,000; Univ. dental sch.; NW. (d) **VACCINE PROD DIRECTOR**, set up & develop new allergy dept.; \$16,000; estb. drug mfr. new bldg; E. (e) **PHARMACOLOGIST** adv. to Dept. Head; direct research; specialty drug firm entering Dermatology field; Calif. (f) **DIRECTOR PROF SERVICES** DVM commercial exp; public contact sales & conventions; \$18,000; FEE PD; biological mfr; MidW. (g) **SR RESEARCH SCIENTIST** industrial exp. R&D dept; \$15,000 FEE PD; leading chem. co; E. Write **WOODWARD MED. PERS. BUREAU**, 185 N. WABASH, CHICAGO 60601. X

**LITERATURE SCIENTIST**—Harvard University's Countway Library of Medicine needs scientist for its Vision Information Center to index and work with the literature of vision. Opportunity to combine backgrounds in science and bibliography. Must have graduate degree in biological science or its equivalent in experience; two foreign languages. Interest in the scientific information problem important. Salary dependent upon qualifications. Excellent fringe benefits. **Lois Farrell, Countway Library of Medicine, 10 Shattuck Street, Boston, Massachusetts 02115.**

### NATIONAL RESEARCH COUNCIL OF CANADA Microbiologists

Applications for appointment to the staff of the ATLANTIC REGIONAL LABORATORY, HALIFAX, NOVA SCOTIA, are invited from candidates with qualifications in microbiology and biochemistry. The appointee should have a Ph.D. degree but applicants with an M.Sc. degree or equivalent will be considered. Up to 3 years post-graduate experience is desirable, but not essential. Preference will be given to candidates with training in enzymology, genetics and systematic bacteriology. The successful applicant will be expected to collaborate with senior scientists on basic research in microbial biochemistry. Initial salary in the range \$7,500-\$10,600 per annum dependent on qualifications and experience. Further particulars may be obtained from the Director, Atlantic Regional Laboratory, National Research Council of Canada, 1411 Oxford Street, Halifax, Nova Scotia, to whom applications should be made not later than 31 December 1967.

**MATERIAL SCIENTIST OR PHYSICAL CHEMIST** with creative talent and strong background in metals, ceramics and plastics research and development. Philip Morris Research Center is expanding its consumer product research efforts and offers positions that enable scientific achievement in the materials field. Salary and advancement are based on individual merit related to creative ability. Company-paid benefits including profit sharing, relocation expenses. Write to: Administrative Assistant, **PHILIP MORRIS RESEARCH CENTER, P.O. Box 3-D, Richmond, Virginia 23206.** An equal opportunity employer.

## POSITIONS OPEN

Position available for college graduate with major in chemistry, biochemistry or related fields, to assist in biochemistry and immunochemistry research. Excellent salary, commensurate with experience and training. Apply

Box 567, SCIENCE.

**Research Associate**—Physicist or Electronic Engineer. To work on R and D grants involving optics and electronics. M.S. or Ph.D., salary to \$12,000 depending on experience.

**Dr. B. S. Savara, University of Oregon Dental School, 611 S.W. Campus Drive, Portland, Oregon 97201.**

## ASSOCIATE STATISTICIAN Upjohn

Immediate opening for an associate statistician with M.S. degree in statistics, or equivalent education and experience, in our statistical services section. Applied statistics in biological and chemical research, quality control and other areas. Work includes design and analysis of experiments, analysis of test and assay results, quality control studies and computer programming.

Send complete resume to: M. F. Murray  
Technical Employment Representative

**THE UPJOHN COMPANY**  
Kalamazoo, Michigan 49001

An Equal Opportunity Employer

**Biophysicist or graduate engineer** with knowledge of physics, thermodynamics and control systems to assist in new program of in vivo analysis of dissolved gases by mass spectrometry. Contact: **Roswell Park Memorial Institute, 666 Elm Street, Buffalo, New York, ATT.: Mrs. Bonnie Krumerman, Employment Manager, or call 716-886-2700, Ext. 511.**

(a) **PATHOLOGIST**, Ph.D. or D.V.M. E Animal research, \$22,000. (b) **ZOOLOGIST**, Ph.D. Neuro-physiology field w/emphasis on biochem or biophysics, to \$18,200. (c) **Ph.D. or D.V.M.** E Pharm. & indus. exp. \$15,000. (d) **BACTERIOLOGY**, Ph.D. Asst prof. f/large MW Univ. 90% resh. 10% tchg. (e) **CHEM or PHARM.** M.S. or B.S. Calif. Exp. drugs, \$11,000. (f) **M.S. or B.S. in ENGR. or SCIENCE**, Calif. Sales, marketing, to \$12,000. Write—**SCIENCE, The Medical Bureau, 900 N. Michigan Ave., Chicago, Illinois 60611—Telephone DE 7-1050.** X

## The Market Place

BOOKS • SERVICES • SUPPLIES • EQUIPMENT

### PROFESSIONAL SERVICES

### HISTOLOGY SERVICE

**RAPID SERVICE Large Orders Quickly Processed! Quickly Shipped!** Professional supervision of every order. Free estimates on special problems. Distant points serviced swiftly. Special stains and techniques available. Full protected shipments. **HISTOLOGY SERVICE, INC.** 4801 N. Broad St., Philadelphia, Pa. Zipcode 19141. (215) DAVenport 4-5800.

## PROFESSIONAL SERVICES

### TRACE ELEMENT PROBLEMS?

Contact: Activation Analysis Service, Dept. A-129, General Atomic Division, General Dynamics, P.O. Box 608, San Diego, California 92112. Or phone: Area Code 714, 453-1000, Ext. 613.

### SUPPLIES AND EQUIPMENT

#### ● HYPOPHYSECTOMIZED RATS

Shipped to all points via Air Express  
For further information write

**HORMONE ASSAY LABORATORIES, INC.**  
8159 South Spaulding Ave., Chicago 29, Ill.

### X-Y SCANNER

for

## TLC

Radiochromatograms

## ICN Technical Associates

A division of International Chemical & Nuclear, Inc.  
140 WEST PROVIDENCIA AVE., BURBANK, CALIF. 91502

### SPECIAL LIGHT SOURCES

- Mercury Point Sources
- Raymaster Blacklight (long and short wave ultraviolet)
- Sodium Vapor
- Mercury Vapor
- Zirconium, Xenon, Deuterium and Hydrogen Arc Lamps
- Imported Spectral Lamps
- Photochemical or High Intensity "Uviarcs"
- Auxiliary Operating Equipment for above

**WRITE FOR FREE CATALOG OR CONTACT YOUR LABORATORY SUPPLY DEALER**

## GATES

**GEORGE W. GATES & CO.**  
LUCILLE AVE. FRANKLIN SQUARE, L.I., N.Y.

## BOOKS AND MAGAZINES

### N.Y. PUBLISHER WANTS MANUSCRIPTS

#### \$1600 BEST BOOK CONTEST

Want your book beautifully published, promoted, distributed by a New York leader in the field? Over 1,000 authors on our list. Attractive subsidy basis for fiction, non-fiction, poetry, scholarly, scientific or controversial books. Send manuscript for free editorial report, free Brochure SX and rules of \$1600 Best Book Contest open to Pageant authors.

#### PAGEANT PRESS

101 Fifth Ave., N.Y., N.Y. 10003

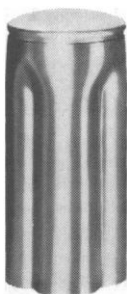


# BOOM!!

# NEVER!

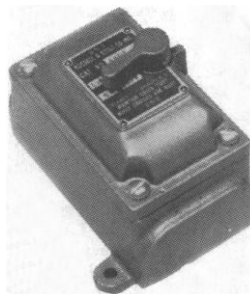
## Waring's Explosion-Proof Blendor Base\* Protects You in Hazardous Atmospheres or when Blending Hazardous Compounds.

This is the only Blendor Base for use in blending explosive materials. It is the only Blendor Base for use in areas where gases, vapors or particles are found in explosive quantities. Because exposed motor arcing is eliminated, the Waring Explosion-Proof Blendor Base can be operated safely in atmospheres permeated with: Acetone/Methyl Alcohol/Benzene/Petroleum/Ether/Natural Gas/Butane/Propane/Gasoline/Naptha. The powerful 2-speed lifetime lubricated motor gives total blending of all volatile substances quickly, efficiently, safely. Ask your supplier about the Waring Explosion-Proof Blendor. Your lab—and your life—may depend on it. **\$289.00** No. EP-1



### STAINLESS STEEL CONTAINER NO. SS510

Made from 302 Stainless to assure greater durability and chemical resistance. Surgical steel blending blades. **\$24.95**



### EXPLOSIVE-PROOF SWITCH NO. EPS-2

- Specially designed unit for 2-speed operation.
- May be connected via conduit for remote control of Explosion-Proof Blendor Base. **\$29.95**



**WARING PRODUCTS CO.**  
Division of  
**DYNAMICS CORPORATION**  
of AMERICA



WINSTED, CONN.

*Please write for full specifications or for answers to any questions you may have.*

\*Shown with SS510 Stainless Steel container

**The new AO  
StereoStar/ZOOM  
Microscope  
gives you high  
resolution,  
new convenience,  
superior optics  
and wide  
magnification  
range.**

Here are a few of the outstanding advantages that make the new AO® StereoStar/ZOOM Microscope the finest instrument of this type available today:

- Widest total magnification range: 3.5–210X
- High resolution to meet the most exacting needs
- The most convenient zoom control available
- Choice of five interchangeable, rotatable zoom power bodies
- Crisp, sharp images at all magnifications
- Extra large field of view and high eyepoint eyepieces
- Wide choice of stands for every purpose
- Long working distance
- Even illumination over the entire field
- Coolest operating illuminator.

See for yourself. Contact your AO Sales Representative for a demonstration, or write for our 24-page, full-color brochure on the newest in stereo microscopes—the AO StereoStar/ZOOM.

© TM Reg., American Optical Co.



**AMERICAN  
OPTICAL  
COMPANY**

**INSTRUMENT DIVISION  
BUFFALO, NEW YORK 14215**

