

London, 1968. xiv + 466 pp., illus. 178 s 6 d.

Topics in Medicinal Chemistry. Vol. 2. Joseph L. Rabinowitz and Ralph M. Myerson, Eds. Interscience (Wiley), New York, 1968. xiv + 361 pp., illus. \$16.

Toxicity and Adverse Reaction Studies with Neuroleptics and Antidepressants. Skin-Eye Syndrome and Electrocardiographic Changes. H. E. Lehmann and T. A. Ban, Eds. Quebec Psychopharmacological Research Association, Montreal, 1968. 184 pp., illus. Paper, \$2.

Transformacion Bituminosa de la Materia Organica y su Relacion con el Origen del Petroleo. Oscar Urteaga-Ballon. Museo de Paleo-Pathologia, Lima, Peru, 1966. xii + 98 pp., illus. Spiral bound.

Translocation in Plants. Michael Richardson. St. Martin's New York, 1968. iv + 59 pp., illus. Paper, \$1.50. The Institute of Biology's Studies in Biology. No. 10.

The Uncertain Nervous System. B. Delisle Burns. Arnold, London, 1968. viii + 194 pp., illus. \$11.50.

A Valency Primer. J. C. Speakman. Arnold, London, 1968 (distributed in the U.S. by St. Martin's, New York). x + 112 pp., illus. Paper, \$2.25.

Vibration and Shock in Damped Mechanical Systems. J. C. Snowdon. Wiley, New York, 1968. xvi + 486 pp., illus. \$18.95.

Wave Mechanics. Gunter Ludwig. Pergamon, New York, 1968. vi + 230 pp. Cloth, \$5.50; soft cover, \$4. Selected Readings in Physics.

Winds and Turbulence in Stratosphere, Mesosphere and Ionosphere. Proceedings of the NATO Advanced Study Institute. Lindau, Federal Republic of Germany, Sept.-Oct. 1966. K. Rawer, Ed. North-Holland, Amsterdam; Interscience (Wiley), New York, 1968. viii + 421 pp., illus. \$18.50.

The Wiswesser Line-Formula Chemical Notation. As revised by Elbert G. Smith *et al.* McGraw-Hill, New York, 1968. xviii + 309 pp., illus. \$15.

The Work of WHO, 1967. Annual Report of the Director-General to the World Health Assembly and to the United Nations. World Health Organization, Geneva, 1968. xii + 199 pp., illus. Paper, \$2. Official Records of the World Health Organization. No. 164.

The World of Radioisotopes. Published in association with the Australian Atomic Energy Commission by Angus and Robertson, Sydney, Australia, 1966 (distributed in the U.S. by Philosophical Library, New York). xviii + 204 pp., illus. \$15.

World Population. An Analysis of Vital Data. Nathan Keyfitz and Wilhelm Flieger. University of Chicago Press, Chicago, 1968. xvii + 672 pp., illus. \$16.50.

World Population. An Analysis of Vital Data. Nathan Keyfitz and Wilhelm Flieger. University of Chicago Press, Chicago, 1968. xvi + 672 pp. \$16.50.

World Without Hunger. Orville L. Freeman. Praeger, New York, 1968. xvi + 190 pp., illus. \$5.95.

Writing a Technical Paper. Donald H. Menzel, Howard Mumford Jones, and Lyle G. Boyd. McGraw-Hill, New York, 1968. x + 132 pp., illus. Paper, \$1.95. Reprint of the 1961 edition.

GET BRIGHTER, SHARPER

Spectrogram of Molybdenum, 3270A-3500A region

SPECTROGRAMS

Spectrogram of Molybdenum, 2500A-2730A region

IN EVERY SPECTRAL RANGE



The Bausch & Lomb Research Dual Grating Spectrograph uses large, 4" x 5" gratings. Great flexibility in choice of these Certified-Precision Gratings permits coverage of all spectral ranges. Gratings are mounted in pairs, back-to-back, in an easily rotatable turret. Using one grating at a time, the resultant $f/15.5$ numerical aperture gives greater intensity, offers higher photographic speed ratings—than ever before.

Determinations are faster, easier, more dependable. Sufficient illumination is available to make spectrograms in the higher orders. Separations are more distinct—bands are bright. Pairs of extra gratings, when ordered with your spectrograph, can be interchanged quickly—without realignment.

For highly critical and ultra-speed work specify a single 4" x 8" echelle type grating and obtain a numerical aperture of $f/12.1$ at normal incidence. Using a 300 groove/mm echelle at an incidence angle of 65° , high-quality spectrograms, up to the 28th order, are possible. Dispersion at this point is approximately 0.25A/mm. An ideal instrument for isotope work and laser applications. A wide variety of these extra large echelle gratings is available.

Write for Catalog 33-2102, Bausch & Lomb, 26409 Bausch Street, Rochester, New York 14602.

BAUSCH & LOMB 

ANALYTICAL SYSTEMS DIVISION

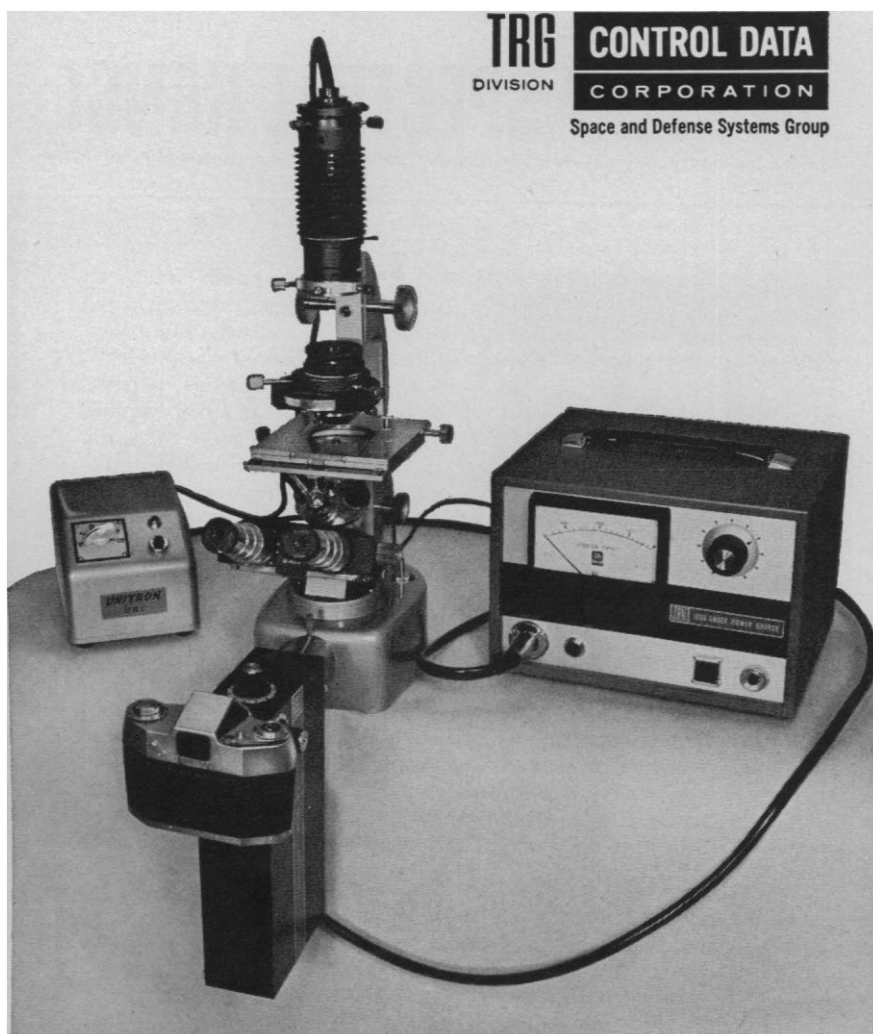
Circle No. 20 on Reader Service Card

ADVANCING ELECTRONIC/OPTICAL
INSTRUMENTATION

New lab mates

TRG's powerful Model 513 Biolaser is now available for coupling with the Unitron inverted microscope. This extends still further the Biolaser's adaptability for microwelding, hole-drilling, resistor-trimming, and microvaporization for spectrographic analysis in addition to biological and general laboratory research. Already in wide use with the American Optical, Leitz, Zeiss and Wild microscopes, the TRG Biolaser system provides high flux densities (up to 10^4 Joules/cm²) in a 1-micron spot. Adapters are available for Polaroid, Reflex, Bausch and Lomb, and Leitz cameras to permit simultaneous photomicrography. Closed-circuit TV techniques can also be applied. The Biolaser is one in a broad line of high-performance, in-stock laser systems and measurement equipment developed by TRG. Call or write for detailed information. Whatever your laser requirements, look to TRG for high-quality laser products. Laser and Electro-Optical Department, TRG Division, Control Data Corporation, Section S, 535 Broad Hollow Road, Melville, New York 11746, (516) 531-0600.

WHAT NEXT IN LASERS? ASK...



Circle No. 28 on Readers' Service Card

Personnel Placement

POSITIONS WANTED

Biochemist/Molecular Biologist, Ph.D. Young, imaginative, broad research experience, publications. Seeks responsible position with university, institute, or industry. Prefers East or California. Box 346, SCIENCE. 9/27

Biochemist, Sc.D. 1962, assistant professor in medical school seeks teaching or research position, particularly brain metabolism, regulation of biogenic amine metabolism. Box 347, SCIENCE. X

Business Administrator, life-science research and college financial management, building, personnel, accounting. Box 348, SCIENCE. X

Retired Organic Chemist, Ph.D., wishes to make small-scale preparations of organic compounds not commercially available in own laboratory. Primarily for researchers lacking time, space, etc. Please include literature reference when requesting firm estimate. Box 344, SCIENCE.

Immunoparasitologist, Ph.D., 9 years of research and teaching experience, publications, seeks academic appointment. Box 349, SCIENCE. X

Clinical Microbiologist, Ph.D., Registered. Extensive experience in teaching and directing diagnostic bacteriology and mycology. Desires position as a director of diagnostic microbiology. Box 350, SCIENCE. 9/27

Medical Microbiologist-Immunologist, Ph.D. Established investigator with 16 years' successful creative academic, institutional and pharmaceutical experience. Accomplished writer. Publications. Desires challenging growth opportunity in technical management. Box 351, SCIENCE. X

Oceanographer-Geophysicist. Outstanding lecturer and research scientist. Five years' research experience in military oceanography, teaching experience in graduate oceanography and undergraduate geology. Some operations analysis experience. Publications. Box 352, SCIENCE. 9/27

Biopsychologist. 1967 Ph.D., five publications (biochemical control of learning), 3 years of teaching; seeks joint research/teaching appointment for 1969. Box 326, SCIENCE. 10/11

Physiology/Biophysics. Ph.D. Memory systems, biomuscle mechanics research; university teaching experience; prefers research or academic position. Woodward Personnel, 185 North Wabash, Chicago 60601. X

Veterinarian. Clinical teaching, research, Peace Corps. Desires research and/or teaching position in biomedical area allowing time for degree program. Box 354, SCIENCE. X

Virologist. Ph.D. 1960. Teaching-research experience in viral chemotherapy, tumorigenesis and immunology. Seeks position. Immediately available. Box 355, SCIENCE. 9/27

Zoologist, Ph.D. Seeks senior faculty graduate teaching and research position. Ten years' academic experience in developmental biology, endocrinology and vertebrate anatomy. Publications. Box 356, SCIENCE. X

POSITIONS OPEN

CHIEF MEDICAL TECHNOLOGIST

ASCP or Eligible. An unusual, challenging, and rewarding position (private laboratories) for an experienced person with managerial ability and proficiency in chemistry and microbiology.

H. C. Bryant, M.D.
425 E. Washington Street
Ann Arbor, Michigan 48108

RESEARCH ASSISTANT

Needed for instrumentation laboratory near University of Pennsylvania. B.S. in biology or chemistry with aptitude for technical writing. Excellent opportunity. Salary open.

Box 342, SCIENCE

Salary to \$16,900
Food and Drug Directorate
Government of Canada
Ottawa

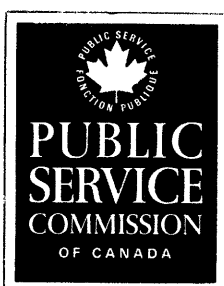
SCIENTIFIC
ADVISERS

The Food and Drug Directorate has the statutory responsibility for the enforcement of the Food and Drug Act and Regulations and related legislation. To meet this responsibility, graduates in pharmacology or physiology are needed to participate in a program of evaluation and consultation relating to drugs. They will act as specialist advisers to government and industry and may have an opportunity to participate in research.

Pharmacologists and physiologists with an advanced degree and related experience in research or advisory work are invited to apply.

Send complete résumé of education and experience to the Bio-Physical Sciences Program, Public Service Commission, Ottawa 4, Ontario, Canada.

Please quote file reference
68-101B



Mix & Dispense
Two Gases
to $\pm 0.05\%$ Accuracy
with the

**i/a CALI-GAS
MIXING
PUMP**



Ideal for
■ Instrumentation Standardization ■ Critical Mixing Requirements ■ Metering Gases ■ Gas Standards

Two pistons, timed to each other, enables the i/a Cali-Gas Mixing Pump to combine and dispense two pure gases to highly accurate calibration ranges. Complete with two pumps, bronze gears, oil bath housing and plastic case — \$775.

For Complete Information, Write:
i/a INSTRUMENTATION ASSOCIATES, INC.
17 West 60th St. New York, N.Y. 10023 (212) 245-0840

Scientific Instruments for Medicine & Industry

Circle No. 76 on Readers' Service Card

DEPARTMENT HEAD

MICROBIOLOGY

Syntex Research has a vacancy for an experienced Ph.D. microbiologist to head the new Microbiological Research Laboratory. The successful applicant will be expected to direct an imaginative research program in medical microbiology and microbiological transformations (especially of steroids). Previous work in the area of steroids and microbial genetics is a definite advantage.

This is an unique opportunity to build a first-class department within a rapidly growing, research-

oriented pharmaceutical company in the San Francisco Bay area.

Write in complete confidence to: Mr. Robert P. Dilks, Employment Manager, Syntex Research, 3401 Hillview Avenue, Palo Alto, California 94304. An Equal Opportunity Employer.

SYNTEX

POSITIONS OPEN

CLINICAL CHEMIST Ph.D.

Participate in scientific program and administration of large department engaged in an analysis of clinically important endocrine substances. Knowledge of hormone analysis desirable. Will consider recent Ph.D. Opening of Assistant Director endocrinology results from expansion. Excellent opportunity. All replies acknowledged and confidential. Send résumé to:

Mr. Frank Carmody
Personnel Manager
BIO-SCIENCE LABORATORIES
7600 Tyrone Avenue
Van Nuys, Calif.

UPPER ATMOSPHERIC RESEARCH AND TEACHING

A position is open at the University of Saskatchewan for a senior physicist with an interest in upper atmospheric research. Experience in spectroscopic studies of aurora and airglow and an interest in studying the particles involved in high-altitude phenomena is desirable. Academic rank up to full professorship and about one-half time will be devoted to teaching. Salary \$12,000-\$17,000 depending on experience. Write:

Dr. L. Katz
Head, Department of Physics
University of Saskatchewan
Saskatoon, Canada

Experienced Medical Writers

Challenging and rewarding positions

with writing assignments ranging from abstracting papers to contributing to departmental quarterly and annual publications in areas of clinical investigation, general medicine and research. Major emphasis will be on the preparation of scientific papers.

At least 3-5 years of similar experience is essential; some knowledge of statistical methods is helpful. A Bachelor's or Master's degree is preferred in either Biological Sciences, Chemistry, English or Journalism.

Our extensive facilities are conveniently located in Nutley, New Jersey, approximately 30 minutes from Midtown Manhattan. Opportunities for professional growth, fringe benefits, and working environment are outstanding. Several additional positions exist and we feel you will have an opportunity to work at the forefront of your ability.

Please address a curriculum vitae and if possible include samples to: R. M. Callan,
Personnel Manager-Research,
Dept. S 920.



HOFFMANN-LA ROCHE INC.
Nutley, New Jersey 07110
An Equal Opportunity Employer M/F

POSITIONS OPEN

CLINICAL CHEMIST

Our expanding research programs have created an opening in the bioanalytical chemistry laboratory of the Clinical Pathology Unit. Responsibilities include blood chemistry determinations on experimental animals to define normal and positive control values for the evaluation of experimental drugs, development of new methodologies and supervision of a small technical staff.

We seek a person with an M.S. in bioanalytical or physical chemistry and 3 to 5 years' experience in clinical determinations, including supervisory experience.

Well-equipped laboratories near Valley Forge (11-channel Auto-Analyzer with on-line digital computer) are 10 minutes from suburban residential areas with excellent schools, shopping and transportation to center city Philadelphia.

We offer excellent salaries, complete company-paid benefit program and family relocation expenses. We encourage personal and professional growth.

Interested candidates should send complete résumé in confidence to:

ROBERT B. TURNBULL

Smith Kline & French
Laboratories
1500 Spring Garden Street
Philadelphia, Pa., 19101



An Equal Opportunity Employer
Member of Plans for Progress

YORK UNIVERSITY TORONTO, CANADA

Full Professor of Organic Chemistry required for 1 July, 1969. The successful candidate will be expected to assist in undergraduate and graduate teaching up to Ph.D. level, and to lend in the development of high-grade research in organic chemistry and/or biochemistry. Salary will be not less than \$16,000. Applications, giving the names of three referees, should be sent by 12 October to the Chairman, Department of Chemistry, York University, Downsview, Ontario, from whom further particulars may be obtained.

ENVIRONMENTAL SCIENCE

Western Washington State College is founding a cluster college for the study of Environmental Science. To be Dean of the College we seek an innovative person with strong interdisciplinary interests who aspires to develop novel and challenging curricula. Address inquiries and professional résumés to:

Dr. Franklin Raney
Western Washington State College
Bellingham, Washington 98225

APPRENTICESHIP

Apprenticeship Graduate Tool or Instrument Maker 8 to 10 years' professional experience minimum, over 35 years old, to run newly equipped one-man precision instrument shop, to design, fabricate, and modify research equipment in university science department. Equitable retirement plan, location in clean, quiet midwestern town. For details and interview contact Dr. David Filmer, Department of Biological Sciences, Purdue University, Lafayette, Indiana 47907.

TRAINEESHIPS

Research Traineeship in Investigative Endocrinology. Two-year program with special emphasis on development and application of radioimmunoassay procedures; current areas of research include physiology and immunology of insulin, growth hormone, oxytocin, vasopressin and calcitonin; funded by National Institutes of Health; one position available 1 July 1969 to M.D. or Ph.D., American citizen or foreign national with permanent residency status. Write Seymour M. Glick, M.D., Maimonides Medical Center, Coney Island Hospital, Ocean & Shore Parkways, Brooklyn, New York 11235.

TRAINEESHIPS

Postdoctoral Traineeships in Journal Editing. Applications are invited for the second 8-month training program for executive editors of biomedical journals, to begin October 1969. Applicants must have a doctorate (Ph.D. or M.D.) in science and at least 3 years' research experience, including publication in scientific journals. No editorial experience is necessary. All aspects of journal editing and management will be taught through experience with editorial offices of five leading biomedical journals. Trainees will receive a stipend commensurate with their training, experience, and present status. Apply (enclosing a curriculum vitae) by 15 November to Dr. F. Peter Woodford, The Rockefeller University, New York 10021.

The Market Place

BOOKS • SERVICES • SUPPLIES • EQUIPMENT

AUTHORS WANTED BY NEW YORK PUBLISHER

Your book can be published, promoted, distributed by a reliable company on a subsidized basis. Fiction, non-fiction, poetry, scholarly, scientific and even controversial manuscripts welcomed. For Free Booklet write Vantage Press, Dept. SC, 120 W. 31 St., New York 10001.

Publicly held Research and Development Corporation interested in acquisition of small business in any of the following areas.

PHARMACOLOGY MICROBIAL PRODUCTS
BIOLOGIES BIOLOGICAL SPECIALTIES

ANTIBIOTICS
Life Sciences, Inc.
2950 72nd St., North
St. Petersburg, Fla. 33710

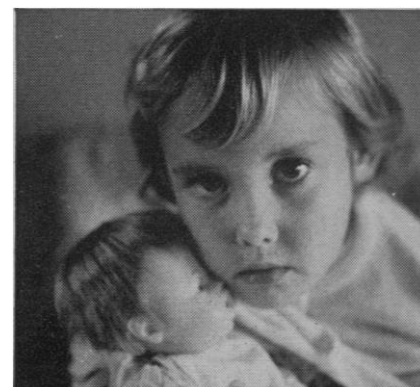
PRIMATES



CONDITIONING & MAINTENANCE
FOR PRE-CLINICAL TESTING
NOW SCHEDULING 1969 PRODUCTION
ROTH RESEARCH-ANIMAL CARE
1746 M St., N.W., Wash., D.C. Phone 347-7560

TRACE ELEMENT PROBLEMS?

Contact Activation Analysis Service, Dept. A-234, Gulf General Atomic Incorporated, P.O. Box 608, San Diego, California 92112. Or phone collect 714/453-1000, Ext. 421.



One gift works many wonders
THE UNITED WAY