illus. \$13.75. International Series of Monographs on Physics.

Statistical Analysis of Geological Data. George S. Koch, Jr., and Richard F. Link. Wiley, New York, 1970. xiv, 376 pp., illus. \$13.95.

Statistics in Endocrinology. Proceedings of a conference, Dedham, Mass., December 1967. Janet W. McArthur and Theodore Colton, Eds. M.I.T. Press, Cambridge, Mass., 1970. xiv, 476 pp., illus. \$12.50.

Stochastic Models of Buying Behavior. William F. Massy, David B. Montgomery, and Donald G. Morrison. M.I.T. Press, Cambridge, Mass., 1970. xiv 464 pp., illus. \$17.50.

Structural Analysis by Finite Difference Calculus. Thein Wah and Lee R. Calcote. Van Nostrand Reinhold, New York, 1970. xiv. 264 pp., illus. \$14.95.

Sudden Infant Death Syndrome. Proceedings of an international conference, Seattle, 1969. Abraham B. Bergman, J. Bruce Beckwith, C. George Ray, and Mary D. Keiter, Eds. University of Washington Press, Seattle, 1970. xx, 248 pp., illus. \$10.

Symbiosis. Organisms Living Together. Thomas C. Cheng. Pegasus, New York, 1970. 250 pp., illus. Cloth, \$6.95; paper, \$2.25. Pegasus Topics in Biological Sci-

Symmetry Principles and Atomic Spectroscopy. Brian G. Wybourne. Including an Appendix of Tables by P. H. Butler. Wiley-Interscience, New York, 1970. xiv, 146 pp., illus. + tables. \$17.50.

Technical Writing. Gordon H. Mills and

John A. Walter. Holt, Rinehart and Winston, New York, ed. 3, 1970. xvi, 574 pp., illus. \$7.95.

Tissue Interactions during Organogenesis. Etienne Wolff. Gordon and Breach, New York, 1970. xvi, 226 pp., illus. Cloth, \$17.50; paper, \$7.50. Documents

on Biology, vol. 1. Traité de Zoologie. Anatomie, Systématique, Biologie. Tome 14, Reptiles. Caractères Généraux et Anatomie. Fascicule 2. Publié sous la direction de Pierre-P. Grassé. Masson, Paris, 1970. xii, 712 pp., illus. + plates. 225 F.

Trichinosis in Man and Animals. S. E. Gould, Ed. Thomas, Springfield, Ili., 1970. xiv, 540 pp., illus. \$44.50.

The Viking Achievement. A Survey of the Society and Culture of Early Medieval Scandinavia. Peter G. Foote and David M. Wilson. Praeger, New York, 1970. xxvi, 474 pp., illus. + plates. \$12.50.

The Upper Amazon. Donald W. Lathrap. Praeger, New York, 1970. 256 pp., illus. + plates. \$8.50. Ancient Peoples and Places, vol. 70.

Wavelength Tables with Intensities in Arc, Spark, or Discharge Tube of More than 100,000 Spectrum Lines Most Strongly Emitted by the Atomic Elements under Normal Conditions of Excitation between 10,000 Å and 2000 Å. Measured and compiled under the direction of George R. Harrison. M.I.T. Press, Cambridge, Mass., 1969. xxxviii, 430 pp. \$25.

Why Metals Fail. R. D. Barer and B. F. Peters. Gordon and Breach, New York, 1970. viii, 346 pp., illus. \$17.50; to libraries, \$35.



IN active fields:

Biomedical Engineering—BROWN, JACOBS & STARK

NEW! A field of rapid development is here taken up in a broad introduction that clarifies bioengineering in all aspects from theory, to development, to practical applications in today's medicine. Coordinates knowledge for the team of the medical scientist and the engineer. By J. H. U. BROWN, JOHN JACOBS and LAWRENCE STARK. 448 pages, 107 illustrations. \$15.00

Immunology for Students of Medicine—HUMPHREY & WHITE

NEW (3rd) EDITION! This widely used text is almost entirely rewritten, updated to include the new concepts, new knowledge applied to specific applications in practical medicine. By J. H. HUMPHREY and R. G. WHITE. 768 pages, 187 illustrations. \$10.50

Veterinary Immunology—HERBERT

NEW! A text which systematically applies the most modern work in immunology to veterinary problems. By W. J. HERBERT. 352 pages, illustrated. \$15.00

A Visual Approach to Histology—WISMAR & ACKERMAN

A basic course in mammalian histology is offered via the potent medium of visual communication. 240 transparencies and accompanying text aid the student. By BETH L. WISMAR and G. ADOLPH ACKERMAN. 240 color slides mounted on plastic sheets in loose-leaf binder. 82 pages of descriptive text. \$140.00

Introduction to Physical Biochemistry—BULL

NEW (2nd) EDITION! A comprehensive guide to the area of physical chemistry as related to biochemistry. By HENRY B. BULL. In preparation.

A Companion to Medical Studies—PASSMORE & ROBSON NEW! Here is the extraordinary work that has been hailed for its readable and informative review of the basic sciences as applied in clinical medicine. Edited by R. PASSMORE and J. S. ROBSON.

Volume I: Anatomy, Biochemistry, Physiology and Related Subjects. 1170 pages, 1075 illustrations. Cloth-bound \$22.00, Plastic-coated cover \$16.00

Volume II: Pharmacology, Microbiology, General Pathology and Related Subjects. 850 pages, illustrated. Cloth-bound \$22.00, Plastic-coated cover,

Volume III: Medicine, Surgery, Obstetrics, Therapeutics and Social Medicine. About 1500 pages, illustrated. In preparation.

Animal Populations and Food Resources—WATSON

NEW! Discusses the quantity, quality, and availability of food as it affects animal population. By ADAM WATSON. 474 pages, illustrated. \$17.50

Introduction to Biology of the Skin—CHAMPION

Edited by R. H. CHAMPION. 416 pages, 140 illustrations. \$15.00

Clinical Neurology—ALPERS & MANCALL

NEW (6th) EDITION! By BERNARD J. ALPERS and ELLIOTT L. MANCALL. In preparation.

IBP HANDBOOKS • International Biological Programme

Fourteen of this noteworthy series are now available, a record of important findings in the momentous worldwide program. Write for details.

F. A. DAVIS COMPANY

Blackwell Scientific Publications

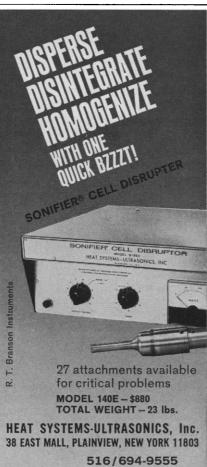
1915 Arch Street Phila., Pa. 19103

Circle No. 29 on Readers' Service Card



Circle No. 111 on Readers' Service Card





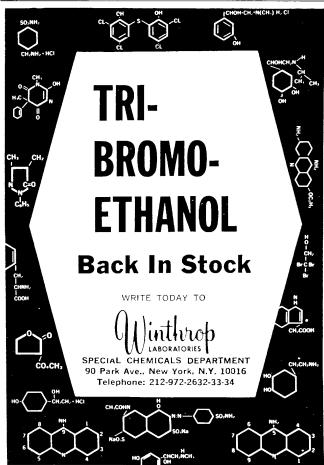
Circle No. 117 on Readers' Service Card

Index of Advertisers

4 December 1970

Academic Press	1137 1133
Bausch & Lomb Beckman Instruments, Inc. 1014,	1015 1035
Bel-Art Products	1126
Bio-Rad Laboratories	1138
Blue M Electric Co	1134
Brinkmann Instruments 1024,	1132
Brush Div., Gould Inc. Buchler Instruments Div.,	1020
Nuclear-Chicago Corp	1128
Chemical Rubber Co	1130
Chromatronix Coates and Welter Instrument	1126
Corp. 1018, Davis, F. A., Co.	
	1139
Electronic Associates, Inc Esterline Angus,	
Div. of Esterline Corp. Extracorporeal Medical Specialties, Inc.	1129
	1038
Gilson Medical Electronics	1040
Hacker Instruments, Inc.	1135
Hadron Inc.	1127
Heat Systems-Ultrasonics, Inc.	1140
Hewlett-Packard	1023
Holt, Rinehart and Winston	1135
Hyland	1125
Instrumentation Laboratory Inc. International Equipment Co.,	1026
Div. of Damon	1030
ISCO	1134
Jeolco (U.S.A.) Inc.	1029
Klett Manufacturing Co., Inc.	1129
Lab Products, Inc	1038 1021
Mathatronics	1140
Metaloglass Inc. Nalgene Labware Div., Nalge Co.,	126B
Nalgene Labware Div., Nalge Co.,	4004
Div. of Sybron Corp. New Brunswick Scientific Co., Inc.	1034
Oxford University Press	
Packard Instrument Co., Inc.	
Parr Instrument Co	1129
Photovolt Corp.	1143
Precision Scientific Co	1131
Professional Tape Co., Inc	1141
Ralston Purina Co	1137
Raven Press	1036
Sargent-Welch Scientific Co	1042
Shandon Scientific Co., Inc.	1128
Siemens Corp.	1444
Tenney Engineering, Inc.	1141
Thermolyne, Div. of Sybron Corp.	1130
Torsion Balance Co.	1136
Ultrascan Co. Unitron Instrument Co	1031 030A
Varian Techtron	1022
Wang Laboratories, Inc.	1032
Waring Products, Div. of	
Dynamic Corp. of America	1039
Wild Heerbrugg Instruments, Inc.	1037
Winthrop Laboratories	1141
Zeiss, Carl. Inc. 1025.	





Circle No. 77 on Readers' Service Card

TIME . COLOR CODE & LABELS IDENTIFICATION TAPE

- solves the widest range of labeling problems
- bacteriostatic for safer handling
- withstands freezing



and autoclaving

Easy-to-use TIME Tape is self-sticking, eliminating handto-mouth contact to protect against cross-infection. Available in 17 colors to adapt readily to any color coding system. Its satin-finish vinyl coated surface can be marked on with ball point pen or pencil. Sticks in-



stantly to any surface, removes without messy residue. TIME Tape is waterproof, oil-proof, acid resistant, withstands temperatures from $-70^{\circ}F$ to $+250^{\circ}F$. Supplied plain or imprinted to your specifications. 5 widths $\frac{1}{2}$ " - 2". Economical TIME Tape is the most versatile labeling agent in the laboratory.

FREE BROCHURE! samples, illustrated brochure, and the name of a dealer near you.

PROFESSIONAL TAPE COMPANY, INC. 365 EAST BURLINGTON ROAD. RIVERSIDE, ILLINOIS 60546

Circle No. 78 on Readers' Service Card

An Invitation to Join the AAAS

SCIENCE brings you in 53 issues-

REVIEW ARTICLES, written by innovators in specific fields.

BRIEF REPORTS of new research findings in all fields.

SCIENCE News and Comment, the weekly news and analysis of government, social, and economic trends, and events that affect research and government.

American Association for the Advancement of Science

1515 Massachusetts Avenue, NW Washington, D.C. 20005	
() I apply for AAAS membership at annual dues of \$12.00:	
Full name	
Address	
City State Zip	
☐ Please bill me ☐ Check enclosed	

Personnel Placement

POSITIONS WANTED



Biochemist, Ph.D., 39. Neurochemistry/neuro-pharmacology of biogenic amines with interest in CNS diseases. Established research program, publications. Desires teaching/research position or others with scope of research. United States or Canada. Box 455, SCIENCE. X

Biologist, Ph.D., 9 years of university experience. Seeking teaching and/or administrative position in undergraduate-oriented department. Particular interest in core curriculum development, innovative experimental teaching techniques. General, genetic, evolutionary, cellular, invertebrate biology. Box 452, SCIENCE. 12/18

Botanist-Anthropologist, Ph.D. Seeks opportunity in freshman/nonmajor courses. Publications. Research. Box 456, SCIENCE. X

Geneticist/Biologist, Ph.D., desires teaching and/or research position; 3 years of teaching and 5 years of research experience. Can teach courses in biology, genetics, botany. Publications. Box 454, SCIENCE.

Phytopathologist Ph.D. 1968. Disease physiology, enzyme biogenesis and purification, fungus physiology, phytoalexins. Grants, publications, teaching experience, etc., proven innovator. Desires new and challenging research/teaching position. Available April 1971. Box 447, SCIENCE. 12/4

Vertebrate Zoologist/Ecologist, Ph.D., age 29.
Three years' experience in research and administration. Seeks teaching/research position in college or university, preferably in western United States. Available summer 1971. Box 451, SCI-FNCE.

POSITIONS OPEN

Applications and recommendations are invited for the position of **Dean of a School of Engineering Science**, a young and developing school in a large southeastern university, strongly interdisciplinary in nature, emphasizing the dependence of engineering on the broad basic scientific principles rather than the narrower concepts of specific applications. We seek an individual of national prominence in scientific research to actively direct the expansion of education and research programs. Résumés should be submitted by 10 January 1971, to **Box 457**, **SCIENCE**.

Zoology Department, Pomona College Claremont, California

A 1-year initial appointment for a recent Ph.D. with special competence in Vertebrate Morphology/Comparative Anatomy and in Microscopy. Assistant Professor level.

Dr. William DeW. Andrus Zoology Department Pomona College Claremont, California 91711

MICROBIOLOGIST

Ph.D. or M.D. for 500-bed acute teaching hospital actively affiliated with medical school. Responsible for entire section of microbiology, teaching, medical technology, medical students, postgraduate residency program, and active research program. Prefer applicant interested in these areas and in availability of hard money for research. Please contact S. Werthamer, M.D., Methodist Hospital of Brooklyn, 506 6th Street, Brooklyn, N.Y. 11215. Telephone (212) 780-3221.

Palaeontologist and Structural Geologist. The Department of Geology, Carleton University, invites applications for two positions, both 1-year appointments commencing 1 July 1971, involving undergraduate and graduate teaching in Palaeontology and Structural Geology, to replace staff members on leave for the 1971/72 academic year. Rank and salary dependent on qualifications. Apply before 1 January 1971, to W. M. Tupper, Chairman, Department of Geology, Carleton University, Ottawa 1, Canada.

POSITIONS OPEN

VETERINARY **VACCINE** RESEARCH AND DEVELOPMENT

Affiliated Laboratories Division of Whitmoyer Laboratories, Inc. needs a D.V.M. or a Ph.D. in Virology to work as an independent investigator in its Research Laboratories at Whitehall, III. From 2 to 5 years' experience in cell culture is essential. The work involves the development of veterinary vaccines beginning in the laboratory, following through animal testing, clinical trials and presenting test results for Government approprial

Whitmoyer Laboratories is a subsidiary of Rohm and Haas Company, one of the nation's leading producers of chemicals, plastics, fibers and health products. Write, giving full details of training and experience, to Manpower and Employment No. 5170, Independence Mall West, Philadelphia, Pa., 19105.

ROHM

An equal opportunity employer

The Medizinische Hochschule Hannover, Germany, invites applications for the

Chair of Microbiology

in the Department of Microbiology and Hygiene. Since there exists already a Chair of Virology and Hygiene in this Department, the major activities of applicants should lie in a complementary field.

field.

The department is in charge of the microbiological diagnostics for the clinical departments. It will move into brand-new quarters in the near

Apply sending full résumé and addresses of referees to the Rektor of the Medizinische Hochschule Hannover, 3 Hannover-Kleefeld, Roderbruchstrasse 101 prior to 15 January 1971.

Applications are invited for the recently established second

Chair of Microbiology

at the University of Tübingen.

The applicant is expected to take an active part in the teaching program for students of biology and biochemistry. His research interests should comply with the special research program "Chemical Biology of Microorganisms."

Applications stating the usual details of qualifications (deadline: 15 January 1971) are requested by

Dekanat des Fachbereichs Biologie 74 Tübingen, Keplerstr. 19, Germany

GRADUATE STUDY

GRADUATE STUDY IN PHYSIOLOGY

Students in the biological and physical sciences are invited to apply to this new training program. Current areas of specialization include cardiovascular, neural, renal, neuromuscular, and endocrine physiology and biomechanics. Teaching assistantships and fellowships with standard stipends are available to U.S. citizens for the 1971–1972 year. Postdoctoral training also available. The University of Arizona is an equal opportunity employer, Write to: Dr. Paul C. Johnson, Head, Department of Physiology, College of Medicine, University of Arizona, Tucson, Arizona 85721.

GRADUATE STUDY

PREDOCTORAL ASSISTANTSHIPS IN PHYSIOLOGY

Excellent opportunities for graduate students (U.S. citizens) leading to the Ph.D. Stipends and free tuition. Research training: all major organ systems, metabolism, cell physiology, bioengineering. Write for details to

Head, Department of Physiology University of Illinois at the Medical Center P.O. Box 6998 Chicago, Illinois 60680

GRADUATE STUDY IN PHARMACOLOGY. A program leading to the Ph.D. degree involving course work and research training which stresses research on fundamental mechanisms of drug action on neural, neuro-humoral, membrane transport, and endocrine systems using electrophysiological, biochemical and computer techniques. Full stipend and tuition available to qualified U.S. citizens. Early application for September 1971 strongly advised. Department of Pharmacology, Schools of Medicine and Dentistry, State University of New York at Buffalo, 122 Capen Hall, Buffalo, N.Y. 14214.

POSTDOCTORAL TRAINEESHIP

In research methods in neoplastic endocrinology and skeletomuscular diseases. Studies in connective tissue chemistry, cell fractionation, tissue culture, mechanism or action of hormones, metabolic bone disease. Candidates must have either M.D. or Ph.D. or graduate student status. U.S. citizenship required. Send full résumé to

Dr. V. P. Hollander, Research Institute, Hospital for Joint Diseases, 1919 Madison Ave., New York, N.Y. 10035.

PHARMACOLOGY: Ph.D. Program. A limited number of fellowships are available for graduate study involving course work and research at various levels of biological organization from molecular processes to intact organisms. Departmental research activities concern the endocrine, renal, cardiovascular, gastrointestinal, and nervous systems.

Write: Department of Pharmacology, State University of New York, Upstate Medical Center, Syracuse, New York 13210.

The Market Place

BOOKS • SERVICES • SUPPLIES • EQUIPMENT

STRUCTURE PROBERING.

Specialists in Materials Research

Scanning Electron Microscopy with Non-dispersive X-Ray Analysis and Accessories

535 E. Gay St., West Chester, Pa. (215) 436-5400

DEUTERIUM OXIDE

99.8 mol%/100.0 mol%

For new low prices call: (415) 234-4130

&BIO·RAD Laboratories

32nd and Griffin Ave., Richmond, California

LITERATURË SEARCHING

When you're ready to do a literature search, call on ISI. The new ISI Search Service can do the job for you—quickly, efficiently and economically. Our massive data files are yours for the searching. Let us know your information problems. We'll look for the answers. Contact C. Granito r M. Rosenberg for details at (215) 923-3300. Or write ISI, Dept. 29-259.

INSTITUTE FOR SCIENTIFIC INFORMATION 325 Chestnut St Philadelphia Pa



Now with digital printout we've taken all the fuss out of Electrophoresis.

The readout from Photovolt's NEW DENSICORD provides a permanent patient record which includes...his individual strip...recorder trace... and printout.

The printout is fully automatic, no guessing of fraction separations or tedious counting of integration marks.



Strip preparation with the Photovolt system eliminates...floppy strips...pipetting...variable applications...chemical preparations.

The Photovolt system provides everything you need for routine serum protein electrophoresis.

Now no more fuss or doubt.



PHOTOVOLT CORPORATION 1115 Broadway, New York, N.Y 10010 (212) 989-2900

Circle No. 8 on Readers' Service Card

Siemens

