(Continued from page 434)

The Production and Hazards of a Hyperbaric Oxygen Environment. Proceedings of a symposium, London, January 1968. G. S. Innes, Ed. Pergamon, New York, 1970. x, 122 pp., illus. \$5.50.

Progress in Nucleic Acid Research and Molecular Biology. Vol. 10. J. N. Davidson and Waldo E. Cohn, Eds. Academic Press, New York, 1970. xxiv, 288 pp., illus. \$14.50.

The Psychology and Education of the Young. A Guide to the Principles of Development, Learning and Assessment. Margaret Munro. Elsevier, New York, 1969. viii, 294 pp. \$4.95.

Psychosocial and Educational Aspects and Problems of Mental Retardation. Robert M. Allen and Arnold D. Cortazzo. Thomas, Springfield, Ill., 1970. xii, 124 pp. \$6

Rank Order Probabilities. Two-Sample Normal Shift Alternatives. Roy C. Milton. Wiley, New York, 1970. xvi, 304 pp., illus. \$12.95. Wiley Series in Applied Statistics.

Recent Advances in Researches on Filariasis and Schistosomiasis in Japan. Manabu Sasa, Ed. University of Tokyo Press, Tokyo; University Park Press, Baltimore, Md., 1970. xiv, 402 pp., illus. \$21.

Regional Ecology. The Study of Man's Environment. Robert E. Dickinson. Wiley, New York, 1970. xiv, 200 pp. \$6.95.

Regular and Related Solutions. The Solubility of Gases, Liquids, and Solids. Joel H. Hildebrand, John M. Prausnitz, and Robert L. Scott. Van Nostrand Reinhold, New York, 1970. x, 228 pp., illus. \$10.95.

The Research Act. A Theoretical Introduction to Sociological Methods. Norman K. Denzin. Aldine, Chicago, 1970. xviii, 370 pp. \$9.50.

A Revision of the Termites of the Genus Meacrotermes from the Ethiopian Region (Isoptera: Termitidae). Jean-Emile Ruelle. Trustees of the British Museum (Natural History), London, 1970. Illus. Paper, £2.60. Entomological Series of the Bulletin of the British Museum, vol. 24, No. 9, pp. 363-444.

Russian Derivational Dictionary. Dean S. Worth, Andrew S. Kozak, and Donald B. Johnson. Elsevier, New York, 1970. xxiv, 750 pp. \$22.95.

Science and Technology in the World of the Future. Arthur B. Bronwell, Ed. Wiley-Interscience, New York, 1970. xxii, 394 pp., illus. \$11.95.

The Science of the Clouds. R. A. R. Tricker. Mills and Boon, London; Elsevier, New York, 1970. 144 pp., illus. + plates. \$6.95.

Seismic Design in Nuclear Power Plants. A conference, Cambridge, Mass., 1969. Robert J. Hansen, Ed. M.I.T. Press, Cambridge, 1970. xiv, 496 pp., illus. \$17.50. Semiconductors and Semimetals. Vol. 5,

Semiconductors and Semimetals. Vol. 5, Infrared Detectors. R. K. Willardson and Albert C. Beer, Eds. Academic Press, New York, 1970. xiv, 552 pp., illus. \$26.

A Short History of Botany in the United States. Joseph Ewan, Ed. Hafner, New York, 1969. x, 174 pp. \$7.50.

Sierra Nevada. Verna R. Johnston. II-lustrated with photographs by the author and maps by Samuel H. Bryant. Houghton Mifflin, Boston, 1970. xx, 282 pp. +

plates. \$7.95. The Naturalist's America, vol. 2.

The Social Contract. A Personal Inquiry into the Evolutionary Sources of Order and Disorder. Robert Ardrey. Drawings by Berdine Ardrey. Atheneum, New York, 1970. x, 406 pp., illus. \$10.

A Sociology of Sociology. Robert W. Friedrichs. Free Press, New York; Collier-Macmillan, London, 1970. xxiv, 432 pp. \$11.95.

Soils. Their Nature, Classes, Distribution, Uses, and Care. J. Sullivan Gibson and James W. Batten. University of Alabama Press, University, 1970. xviii, 298 pp., illus. \$7.

Spark Chambers. Otto Claus Allkofer. Under the cooperation of Wolf-Dieter Dau and Claus Grupen. Verlag Karl Thiemig, Munich, 1969. xii, 248 pp., illus. \$15.

Spins in Chemistry. R. McWeeny. Academic Press, New York, 1970. xii, 156 pp., illus. \$8.50. Current Chemical Concepts. Monograph of the Polytechnic Institute of Brooklyn.

A Stereotaxic Brain Atlas for Macaca nemestrina. W. D. Winters, R. T. Kado, and W. R. Adey. University of California Press, Berkeley, 1969. xiv, 94 pp., illus. \$18.50.

Taxonomist's Glossary of Genitalia in Insects. S. L. Tuxen, Ed. Munksgaard, Copenhagen, ed. 2, 1970. 360 pp., illus. Kr. 200. Scandinavian University Books.

Techniques for Plant Electron Microscopy. B. E. Juniper, G. C. Cox, A. J. Gilchrist, and P. R. Williams. Blackwell Scientific Publications, Oxford, England, 1970 (U.S. distributor, Davis, Philadelphia). xii, 108 pp., illus. \$3.50.

Technological Change. Its Impact on Man and Society. Emmanuel G. Mesthene. Harvard University Press, Cambridge, Mass., 1970. 128 pp. \$4.95.

Technology, Management and Society. Essays by Peter F. Drucker. Harper and Row, New York, 1970. xii, 212 pp. \$5.95.

Theories of Light. From Descartes to Newton. A. I. Sabra. Oldbourne, London, 1970 (U.S. distributor, Elsevier, New York). 364 pp., illus. \$12.75. Oldbourne History of Science Library.

Topics in Applied Quantumelectrodynamics. Paul Urban. Springer-Verlag, New York, 1970. viii, 268 pp. \$15.85.

The Tyranny of the Experts. How Professionals Are Closing the Open Society. Jethro K. Lieberman. Walker, New York, 1970. viii, 318 pp. \$8.50.

Vector Analysis for Mathematicians, Scientists and Engineers. S. Simons. Pergamon, New York, ed. 2, 1970. viii, 192 pp., illus. Cloth, \$4.75; paper, \$2.25. Commonwealth and International Library: Physics Division.

Vigilance and Habituation. A Neuropsychological Approach. Jane F. Mackworth. Penguin, Baltimore, 1970. 240 pp., illus. Paper, \$1.95. Penguin Science of Behaviour.

Viruses as a Cause of Cancer. A Report on Research. American Cancer Society, New York, 1969. 28 pp. Paper. Where Medicine Fails. Anselm L.

Where Medicine Fails. Anselm L. Strauss, Ed. Aldine, Chicago, 1970. x, 174 pp. Paper, \$2.45. Trans-action Book 4.

The Year Book of the Royal Society of London 1970. (Royal Society of London, 1970). 432 pp. \$2.75.

Personnel Placement

POSITIONS WANTED: 40¢ per word, minimum charge \$10. Use of Box Number counts as 10 additional words. Payment in advance is required. These rates apply to individuals only. Personnel agencies and companies take display rate for all advertising.

POSITIONS OPEN: \$21 per quarter inch (minimum \$84) for publishers 6 point type (12 lines per inch). All ads using larger than 6 point type will be billed as display ads at \$25 per quarter inch (minimum \$100). No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Ads over 1 inch will be billed of the nearest half inch. Payment in advance is required except where satisfactory credit has been established.

COPY for ads must reach SCIENCE 4 weeks before issue date (Friday of every week). Send copy for Personnel Placement advertising to:

SCIENCE, Room 211 1515 Massachusetts Ave., NW Washington, D.C. 20005

Replies to blind ads should be addressed as follows:

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

POSITIONS WANTED

Biochemist: M.S., biochemistry. Ten years of research experience. Seeks position (academic, government, industry) where extensive experience will be utilized and is required. Background: protein and carbohydrate structure, enzymology, carbohydrate metabolism, steroids, and analytical methodology (wet and instrumental). Publications. East Coast preferred. Available Fall 1970. Box 379, SCIENCE. 10/23, 30

Biologist, Ph.D., 34, 8 years of university experience, desires position in institution where innovative undergraduate learning experiences are considered more important than volume of faculty publications. Box 381, SCIENCE.

Biomedical Scientist, B.S., D.V.M., M.S., Ph.D., with 6 years of junior-level administrative experience in biological sciences and research (pharmacology, toxicology, infectious disease). Integrated concepts of basic biochemistry, biology, physiology, pathology, pharmacology, medicine. Seeking senior-level administrative post in university or organization which recognizes integrative nature of life sciences. Want to keep hand in research. Publications. Good teaching background and capability. Box 392, SCIENCE.

Biophysical Chemist, Ph.D., associate professor with extensive research experience in biological applications of spectroscopy at a large university. Desires relocation to clean, pleasant environment. Box 393, SCIENCE.

Cytologist. Ph.D. Publications. Research experience in insect experimental embryology, mammalian cytogenetics, and human chromosomes studies. Seeks research-teaching position. Box 394, SCIENCE.

Entomologist, Ph.D. (36), 10 years of university and research experience in insect ecology, behavior, physiology, cold-hardiness. Senior post-doctoral training. Publications. Desires position with opportunity for research. Consider U.S., Canada, or Australia. Box 395, SCIENCE. X

Enzymologist with biochemical and histochemical publications. Research or research and teaching. Box 396, SCIENCE. 11/20;12/18

M.D.-Ph.D. Research Team in psychobiology, psychopathology, and addiction seeking research setting of small size in pleasant place to provide space and facilities for grant. Substantial contributions. Box 397, SCIENCE.

Medical Writer, M.S., bacteriology, formerly Chief, Technical Literature and Consulting Medical Editor for major pharmaceutical firm; for full-time work in Houston or free-lance of all sorts anywhere. Résumé. Box 398, SCIENCE. X

TWO SENIOR **SCIENTIST POSITIONS**

MICROBIOLOGIST

Excellent new opportunity for Ph.D. level researcher to contribute to a serious long range effort in antiinfectives.

Responsibility includes research related to diagnostics and chemotherapy, principally bacterial infections and evaluation of antibiotics.

Ph.D. Microbiology required. In addition, successful candidate's pharmaceutical or clinical lab experience (3-5 years preferred) will have resulted in a well trained medical bacteriologist, knowledgeable in antibiotics, chemotherapy and/or diagnostics.

BIOLOGICAL SCIENTIST

(Science Information)

As a key member of interdisciplinary teams, this individual will assess technological information and contribute to the teams' vital recommendations for research and marketing management. Position offers an excellent opportunity for broad exposure and active participation in the full cycle of pharmaceutical effort, from the planning of research direction through the development and marketing of com-

Required is a Ph.D. in Biochemistry or Physiology; postdoctoral or industrial experience desirable but not necessary. Individual must be highly motivated and creative, and possess leadership qualities that will enhance cooperative team efforts.

Both positions above provide an opportunity for continued professional growth; publications encouraged. Excellent benefits and salary (commensurate with qualifications). Relocation expenses paid.

Francis J. Beston

SMITH KLINE & FRENCH LABORATORIES

1520 Spring Garden Street Philadelphia, Pennsylvania 19101

An Equal Opportunity Employer

POSITIONS OPEN

BIOCHEMIST

Ph.D. with experience in lipid biochemistry to join a research lipid metabolism unit. Studies involve fat absorption, lipoprotein synthesis and metabolism. Methods include ultracentrifugation, isotope analyses, chromatography separations, etc. Small permanent research unit. Liberal employee benefits include free tuition for self and dependents. Please send complete résumé to: Miss M. Kerans, Personnel Dept., N.Y.U. Medical Center, 568 First Avenue, New York, N.Y. 10016.

(An Equal Opportunity Employer)

DEAN Faculty of Science St. Francis Xavier University Antigonish, Nova Scotia, Canada

Antigonish, Nova Scotia, Canada
Applications are invited for the position of Dean in the Faculty of Science. Candidates should be recognized scholars and have administrative experience. The position requires the general supervision and development of the academic and research programs in a Faculty of ten Departments with a staff of seventy. The enrollment on the Antigonish campus is 2,500 of which 35% are in the Science Faculty. The direction of student programs and individual courses of study is also required.

The salary is open; the appointment is to be made preferably by 15 January 1971, or 1 July 1971, and the closing date for applications is 15 December 1970. Apply to:

Malcolm MacDonell President

St. Francis Xavier University Antigonish, Nova Scotia, Canada

EDITOR

Full-time editor needed for interdisciplinary scientific journal based in Washington, D.C. To edit manuscripts of review articles and research reports and to negotiate editorial changes (technical and stylistic) with authors. Graduate work in a biomedical science preferred. Two to five years of solid editing experience required. Reply by letter, stating qualifications and salary requirements.

Box 400, SCIENCE

EDITOR

M.D., under 45 wanted to join editorial staff of large midwestern clinical, research, and teaching institution; mostly editing of medical and basic-sciences manuscripts; opportunity for some teaching; doctorate in medicine and some editorial training or experience required.

ROX 309. SCIENCE

BOX 390, SCIENCE

IMMUNOBIOLOGIST

Ph.D. immunobiologist with background and interests in cell-mediated hypersensitivity and/or inflammation to engage in independent research on immune response at the cellular level and in intact animals. Please reply in confidence to Dr. E. H. Wiseman, Pharmacology Department, Pfizer Inc., Groton, Connecticut 06340.

UNIVERSITY OF OTAGO Dunedin, New Zealand SECOND CHAIR OF ZOOLOGY

The University Council has decided to establish a Second Chair of Zoology. Applications are invited, Professorial salaries are fixed at various points within the range of \$NZ9,000 to \$NZ11,500 per annum. (Note: \$NZ100 equals £46. 13.4 stg, \$US112, \$A100).

The Department of Zoology has recently undergone some expansion in staff and range of available facilities, and applications will be particularly welcomed from persons whose main interests accord with present lines of development in the Department.

Particulars are available from the Secretary-General, Association of Commonwealth Universities (Appts), 36 Gordon Square, London, WCIH OPF, or from the Registrar of the University. Applications close in New Zealand and London on 21 November 1970.

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

POSTDOCTORAL FELLOWSHIPS IN IMMU-NOLOGY. Some fellowships are available starting 1 September 1971 in the fields of Cellular Immunology, Immunochemistry and Immunopathology. American citizenship or resident visa required. For further information write including C.V. to Doctor V. Nussenzweig, Department of Pathology, New York University School of Medicine, 550 First Avenue, New York 10016.

PREDOCTORAL FELLOWSHIPS IN PHYSIOL-**OGY**—Training leading to the Ph.D. with special orientation in physiological control systems, cardioorientation in physiological control systems, cardio-vascular, temperature regulation, endocrinology, and neurophysiology. Emphasis upon preparation for academic careers combining teaching and re-search. Stipends with tuition and dependency al-lowance available to qualified undergraduates in engineering, biology, chemistry, mathematics, or physics. A maximum of five new students ac-cepted each year maintaining a low students cepted each year, maintaining a low student-adviser ratio. Detailed information from DR. CLARENCE N. PEISS, Graduate Program Di-rector, Department of Physiology, Loyola Uni-versity-Stritch School of Medicine, 2160 South First Avenue, Maywood, Illinois 60153.

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.

The Market Place

BOOKS • SERVICES • SUPPLIES • EQUIPMENT

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

JARRELL ASH 3.4 METER ERERT SPECTROGRAPH, Model 70-310.

Includes cabinet, lenses, primary slit assembly, grating, varisource, microphotometer, and photoprocessor. Like New. Cost \$40,000. Call for the Labex price.

Laboratory Instrument Exchange, Inc. 301 East Erie Street Chicago, Illinois 60611 (312) 787-0800

THIOL NEW REAGENTS

NEWCELL CPDS (6,6'-dithiodinicotinic acid) NEWCELL NPDS [2,2'-dithiobis-(5-nitropyridine)] NEWCELL THIOL SPRAY, aerosol containers

> Write for literature NEWCELL biochemicals

631 Hearst Avenue • Berkeley, California 94710

We want to be useful ...and even interesting



False color in the mail

To see in the near infrared now becomes more convenient. You use your 35mm camera, a slide projector, and the U.S. Mail. Into the latter you drop a Kodak Prepaid Processing Mailer PK20 containing the 135 Kodak Ektachrome Infrared Film on which you have photographed your subject in "false color," a term to which this film has given meaning in pathology, both plant and human. Think a kind thought about sensitive spirits who have healthily turned to photography instead of pharmacology for the esthetic delight of

seeing the world in new colors. The weight of their numbers now permits all Kodak Processing Stations in the land to handle this film. Another way the necessary volume could have been attained would have been for this country to adopt the new practice in Finland, where women routinely undergo mammography in "false color" to visualize vascularization patterns suggestive of early breast cancer.

Write Scientific Photography, Eastman Kodak Company, Rochester, N.Y. 14650 if there are any questions.

Accessories for the bandwagon

They are saying that environmental concern is just a passing fad. Let's hope they are wrong.

Talk is cheap about SO₂ in the air. 5-Aminofluorescein (EASTMAN 10866) is not very expensive either. It helps put the talk on a quantitative basis. Its fluorescence is depressed by the reaction product of bisulfite and formaldehyde in a manner to permit determination of SO₂ trapped in sodium tetrachloromercurate(II) down to a level of 20 nanograms per ml. Details from the National Center for Atmospheric Research can be found in *Anal. Chem.* 42:512 (1970), where our assistance is graciously termed "invaluable."

Fluorescein Mercuric Acetate (EASTMAN 9963) has its fluorescence dimmed by H_2S , which is also in the air, as is talk about its presence. Same laboratory tells in *Anal. Chem.* 41:1856 (1969) how that talk can be put in terms of fractional parts per billion. The part of the paper that tells how to make fluorescein mercuric acetate can now be skipped.

Same idea from same lab with plain fluorescein (as the disodium salt, EASTMAN 735) for NO_3^- down to 10 nanograms per ml in concentrated H_2SO_4 (Anal. Chim. Acta 51: 21 (1970)). This permits measurement of NO_x in the air. First you filter particulate matter out of the air, then convert to NO_3^- by bubbling through H_2O_2 solution.

For O₃ down to a part per billion in the atmosphere, one

turns from dimmed fluorescence to chemiluminescence. The reaction is with Rhodamine B (EASTMAN 4453) on siliconetreated EASTMAN CHROMAGRAM Sheet 6061 in an instrument which has been described by workers at the National Air Pollution Control Administration, Division of Chemistry and Physics, 3820 Merton Drive, Raleigh, N.C. 27609. These workers are suspicious of measurements with iodideiodine solution that come up with lower values for total atmospheric oxidants than they get for O₃ alone.

Rhodamine B is not to be confused with Rhodamine 6G, (EASTMAN 10724). In Applied Physics Letters for Sept. 15, 1970, a communication by Peterson, Tuccio, and Snavely of our own Research Laboratories tells how with Rhodamine 6G they achieved the first CW dye laser. It is known that highly monochromatic laser emission from dyes can be continuously tuned over a broad spectral range. When pointed over a suffering city and swept over an appropriate frequency range, a dye laser beam should call forth from each molecular species in the air a fluorescence signature. Can you see any demand for such an instrument? There would be no worry about proper disposal of the very mercury compounds used in measuring SO₂ and H₂S, would there?

EASTMAN Organic Chemicals and EASTMAN CHROMAGRAM Sheet can be ordered through leading lab supply houses.

Is work good for people?

Rather few of us 113,000 souls here spend our working hours thinking beautiful patterns of thought. The rest of us live by a more literal concept of work. Of our many thousands of products and services, not many flow in such majestic torrents that the only human help possible must come from the brain's topmost centers. Some of us—archaic though it may seem—are actually paid to use our hands, eyes, and feet. This in turn provides employment for 15 of us drawn from the disciplines of engineering, medicine, psychology, and physiology to grapple with such questions as:

- Despite appearances, are some jobs too taxing to the body or the human spirit to do day-in and day-out?
- Despite appearances, which jobs are insufficiently taxing to keep the jobholder vigilant?
- How would workers benefit by variations in work methods, changes in rest periods, or job rotation?
- What kind of tests would best match people to difficult iobs?
- Where can redesign of equipment and work environment help productivity and quality through worker comfort?

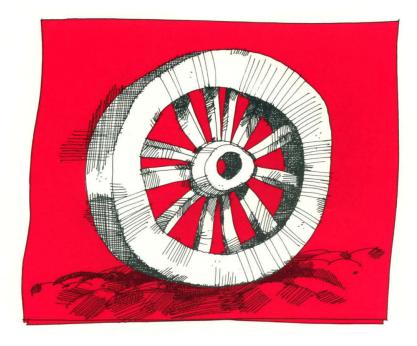
- How much should production workers and inspectors know about the use of the product?
- How can these human-factors studies guide design of the products to help the humans who use them?



Is it true that irregularity in foot-tapping indicates psychomotor stress?



What kind of window glass in the work-break rooms of our new film manufacturing plant on the Front Range of the Rockies will least affect time for return of dark adaptation?



Tried and true.

REMARKABLY SIMPLE AND EASY TO USE.
BUT WITH A SPECIAL KIND OF COUNTING PERFORMANCE.
OUR PLANCHET SYSTEMS, OF COURSE.

Simplicity begins in our planchet counting systems with a reliable, powerful sample changer. It's all solid-state—no electromechanical relays. Virtually immune to breakdown.

And if you're at all familiar with planchet counting systems, you know they're inherently easy to use. With simple, straightforward operating controls and clear, concise data presentation. So it is with ours.

Fortunately, the simple way to count samples may well be the best way. Especially if you're working with samples that quench highly in liquid scintillation systems. Here, the planchet system can often give you a much improved E^2/B .

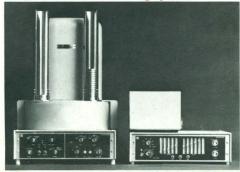
But be alert to the differences among planchet systems. Ours are equipped with a gas-flow detector that's highly sensitive up to the edge of the window. Reproducibility is the result of that difference.

And, during windowless operation, our detector is flushed—automatically—by the gas for a pre-set period before counting starts. An electrostatic dust shield protects the detector, which has low background and easily replaceable windows.

When the time comes to choose which of our planchet systems is right for you (there are five different ones), evaluate these possibilities: Up to 150-sample capacity; normal or low-background counting; 1¼ or 2-inch diameter planchets; printout of sample number, time, and count; and single or dual channel. Also available with a sodium iodide detector for counting solid gamma samples such as ¹²⁵I.

Our performance-proved planchet counting systems. Don't overlook them. Call your Nuclear-Chicago sales engineer or write to us for complete information.

Series 4300 Planchet Counting Systems





2000 Nuclear Drive, Des Plaines, Illinois 60018, U.S.A. Donker Curtiusstraat 7, Amsterdam W. The Netherlands