Agriculture, Washington, D.C., 1968 (available from Superintendent of Documents, Washington, D.C.). xlvi + 386 pp., illus. \$3.

The Science of Coexistence. Ambrose Ryder. Philosophical Library, New York, 1968. 96 pp. \$4.

Science Year. The World Book Science Annual, 1968. Field Enterprises, Chicago, 1968. 450 pp., illus. \$6.95; to owners of The World Book Encyclopedia, \$5.95.

Selected Applications of Nonlinear Programming. Jerome Bracken and Garth P. McCormick. Wiley, New York, 1968. xiv + 114 pp., illus. \$8.95.

The Signal Flow Graph in Linear Systems Analysis. A Programmed Text. John R. Ward and Robert D. Strum. Prentice-Hall, Englewood Cliffs, N.J., 1968. Unpaged. Spiral bound, \$5.95.

So Human an Animal. René Dubos. Scribner, New York, 1968. xiv + 272 pp. \$6.95.

Soil Physics. Helmut Kohnke. McGraw-Hill, New York, 1968. x + 230 pp., illus. \$10.50. McGraw-Hill Publications in the Agricultural Sciences.

The Soil Resources of Tropical Africa. A Symposium of the African Studies Association of the United Kingdom. R. P. Moss, Ed. Cambridge University Press, New York, 1968. xvi + 228 pp., illus. \$7. Some Diseases of Animals Communi-

Some Diseases of Animals Communicable to Man in Britain. Proceedings of a symposium, London, 1966. Oliver Graham-Jones, Ed. Pergamon, New York, 1968. xvi + 340 pp., illus. \$16. The Story of Medicine. Roberto Mar-

The Story of Medicine. Roberto Margotta. Paul Lewis, Ed. Golden Press, New York, 1968. 320 pp., illus. \$17.95.

The Story of Quantum Mechanics. Victor Guillemin. Scribner, New York, 1968. xviii + 334 pp., illus. \$8.95.

The Study of Policy Formation. Raymond A. Bauer and Kenneth J. Gergen, Eds. Free Press, New York; Collier-Macmillan, London, 1968. xxiv + 392 pp. \$9.95.

The Teachings of Don Juan. A Yaqui Way of Knowledge. Carlos Castaneda. University of California Press, Berkeley, 1968. xii + 196 pp. \$5.95.

Tropical Crops: Dicotyledons. J. W. Purseglove. Wiley, New York, 1968. 2 vols., xx + 719 pp., illus. \$8.50 each. The Unified Theory of Electrical Ma-

The Unified Theory of Electrical Machines. Charles V. Jones. Plenum, New York; Butterworths, London, 1968. x + 542 pp., illus. \$18.

Varieties of Police Behavior. The Management of Law and Order in Eight Communities. James Q. Wilson. Harvard University Press, Cambridge, Mass., 1968. xiv + 312 pp. \$6.50.

Water Deficits and Plant Growth. T. T. Kozlowski, Ed. Vol. 2, Plant Water Consumption and Response. Academic Press, New York, 1968. xiv + 333 pp., illus. \$15.

World Directory of National Science Policy-Making Bodies. Vol. 2, Asia and Oceania (xii + 157 pp., illus. Paper). Vol. 3, Latin America (xiv + 187 pp., illus. Paper). U.N. Educational, Scientific and Cultural Organization, Paris, 1968.

Yanomamö. The Fierce People. Napoleon A. Chagnon. Holt, Rinehart and Winston, New York, 1968. xvii + 142 pp., illus. Paper, \$2.50. Case Studies in Cultural Anthropology.

6 DECEMBER 1968

A formula for success.

Our newly-available Charles River Rat and Mouse Formula. The same formula used for successful breeding and raising of all Charles River animals.

Now offered to help you control an important research variable. Now offered to allow your animals' diet to be the same, from birth through experimentation.

Our formula is vitamin prefortified for pasteurization. Specially-shaped for maximum steam penetration. Clump-free after steam processing. Uniformly consistent, calibrated and regulated. And each 50-pound package is rupture-resistant under high vacuum steam processing.

Available soon to researchers everywhere from Country Best-Agway, Inc., through your local feed distributor. Charles River Breeding Laboratories, Inc., Wilmington, Massachusetts 01887.







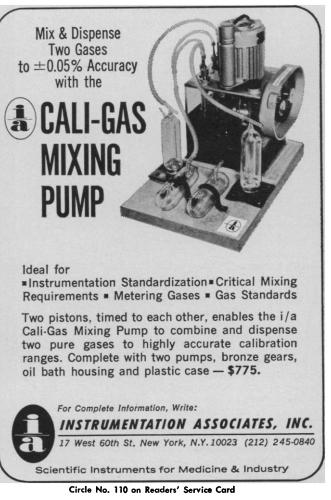
INDEX OF ADVERTISERS—6 December 1968

Ainsworth, Wm., & Sons, Inc. Amicon Corp.	
Barnstead Still and Sterilizer Co. Bausch & Lomb Beckman Instruments, Inc. 1044, 1045,	1185
Blickman, S., Inc. Brinkmann Instruments, Inc.	1202
Carver, Fred S., Inc. Cary Instruments 1126, Charles River Breeding Laboratories Chemical Rubber Co. Clevite Corp., Brush Instruments Div. 1051, Coleman Instruments Div., Perkin- Elmer Corp. Curtin, W. H., & Co.	1127 1203 1184 1052 1062
Davis, F. A., Co. Durrum Instrument Corp.	1191
E & M Instrument Co., Inc E-C Apparatus Corp. Electronic Associates, Inc. EON Corp.	1198 1190 1209 1206
Fish-Schurman Corp. Fisher Scientific Co., Instrument Div. Forma Scientific, Inc. Freeman, W. H., & Co.	1198 1180 1193 1193
General Electric Co. Gilford Instrument Laboratories, Inc. Gilson Medical Electronics, Inc.	1061
Hacker Instruments	1177

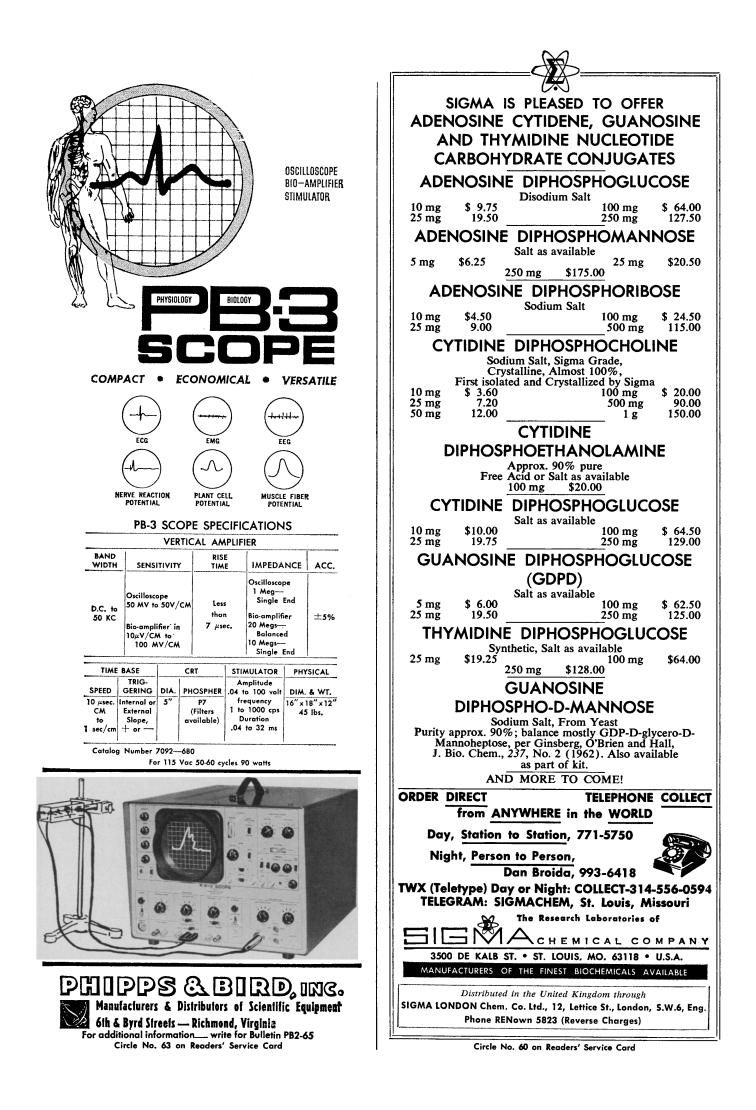
Heat Systems Co. Houghton Mifflin Co.	
Instrumentation Associates, Inc. Instrumentation Laboratory Inc. Instrumentation Specialt es Co., Inc International Equipment Co. Intertechnique Instruments Inc.	1050 1192 1073 1196
Isotopes Kirschner Manufacturing Co. Klett Manufacturing Co., Inc. Kontes	1188 1197
Labindustries Lea & Febiger LKB Instruments, Inc.	1056
Maryland Plastics, Inc. Melabs Scientific Instruments Mercer Glass Works, Inc. Mettler Instrument Corp. Miles Laboratories, Inc., Research Products Div. Mistaire Laboratories	1201 1187
Nalgene Labware Div	1178 1069
Ohaus Scale Corp. Oxford University Press	1181 1194
Packard Instrument Co. Parr Instrument Co. Pentex Inc. Percival Refrigeration & Mfg. Co., Inc.	1202 1188 1063 1188
Perkin-Elmer Corp. Pharmacia Fine Chemicals, Inc.	1054 1076

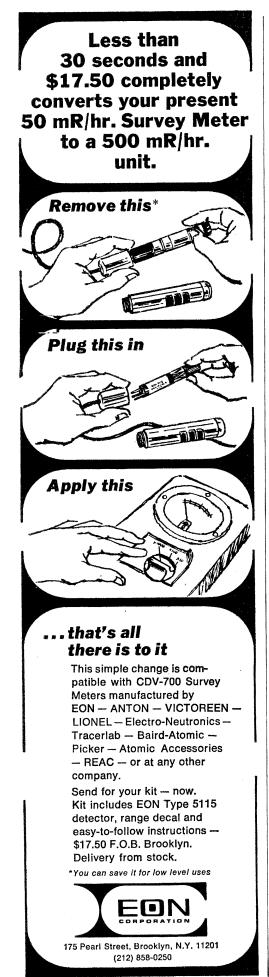
Phipps & Bird, Inc.Photovolt Corp.Plenum Publishing Corp.1072,Precision Scientific Co.Professional Tape Co., Inc.	1182 1197 1065
Rare Earth Div., American Potash & Chemical Corp.	
Sargent-Welch Scientific Co. Schleicher & Schuell Schoeffel Instrument Co. Scientific Glass Apparatus Co. Shandon Scientific Co., Inc. Sherer-Gillett Co. Sigma Chemical Co. Sobotka, Eric, Co., Inc. Sorvall, Ivan, Inc. Springer-Verlag New York Inc.	1071 1192 1201 1060 1182 1181 1205 1200 1049 1128
Technicon Corp.Technilab Instruments, Inc.Thermolyne Sybron Corp.Thomas, Arthur H., Co.Transidyne General Corp.Unitron Instrument Co.	1080 1193 1190 1210 1076 1057
Wang Laboratories, Inc.Waring Products Div., DynamicsCorporation of AmericaWestern ElectricWhittaker Corp.1183,Wild Heerbrugg Instruments, Inc.Wilkens-Anderson Co.Wisco Div., ESB Inc.Worthington Biochemical Corp.Zeiss, Carl, Inc.	1189 1068 1125 1196 1179 1184 1197 1200 1059





SCIENCE, VOL. 162





Circle No. 99 on Readers' Service Card

Personnel Placement

POSITIONS WANTED

Aquatic Biologist. Ph.D., postdoctoral, with ex-tensive teaching experience. Research in pollution biology, aquatic systems, and teaching. Desires teaching/research/administrative position. Box 446, teaching/resource.

Biologist, Ph.D., 26, 1-year postdoc in laser biology and tissue culture, seeks teaching/research position at major East or West Coast university; will teach genetics, embryology, or evolution; ten publications; department must be willing to finance initiation of laser biology research program. Box 438, SCIENCE. 12/6

Developmental Biologist, Biochemist. 29, Ph.D. 1967, currently postdoctoral fellow, publications, Seeks teaching/research position, preferably West or East Coast. Box 447, SCIENCE. X

BUSINESS ADMINISTRATOR, new construction management, grants, contracts, personnel, cost reduction. Box 448, SCIENCE. X

Crystallographer (protein, organic). Ph.D. (bio-physics). Four years' experience. Publications. Desires research position industry/university in crystallography, protein chemistry, or polymers. Box 449, SCIENCE. 12/13

Electronic Designer. Medical electronics, telem-etry, analytical instruments. Has own facilities. Part-time; free-lance. Box 450, SCIENCE. 12/13

Pharmacologist, Ph.D.; 8 years of varied experi-ence. Desires supervisory or administrative posi-tion. Box 432, SCIENCE. 12/6

Translations of scientific literature from German and French into impeccable English. P.O. Box 489, Forest Hlls, N.Y. 11375.

Translations, of scientific and technical material from German and French and into German. Ab-stracting of papers for current information on foreign publications. Backed by extensive re-search engineering and translating experience. Box 430, SCIENCE. 12/6

POSITIONS OPEN

Marine Biology, Chemistry, Physics, Geology Academic position open at 4-year State college in Maryland, Candidates should have or be within reach of the Ph.D. Development of an under-graduate marine biology program is in progress. Write to Chairman, Science-Mathematics Division, St. Mary's College of Maryland, St. Mary's City, Maryland 20686.

BIOLOGIST

Chairman for Biology Department, liberal arts orientation, who wants to develop an integrated teaching and research program. Ph.D. with re-search and administrative experience preferred, Salary \$13,000-\$17,000. Address inquiries to:

President John J. O'Neill **Boston State College** 625 Huntington Ave. Boston, Mass. 02115

VIROLOGIST

VIROLOGIST Ph.D. Position immediately available in expanding de-partment of life science research laboratory in Maryland suburb of Washington, D.C. Experience in oncology or simian virology desirable. Recent graduates will be considered. Salary commensu-rate with excellence of training and experience. Excellent employee benefit program. Reply with résumé to Personnel.

BIONETICS RESEARCH LABORATORIES, Inc. DIV. OF LITTON INDUSTRIES 7300 Pearl Street Bethesda, Md. 20014

An Equal Opportunity Employer

POSITIONS OPEN

BIOLOGIST or MICROBIOLOGIST

Immediate opening for M.S. or equal requiring strong tissue culture background including 3 to 5 years recent experience. SAN FRANCISCO BAY AREA. Send résumé to: H. B. Snalder, STANFORD RESEARCH INSTITUTE 333 Ravenswood Ave., Menlo Park, Calif. 94025 An Equal Opportunity Employer

AUSTRALIA

UNIVERSITY OF MELBOURNE

LECTURESHIP

in the DEPARTMENT OF ZOOLOGY

QUALIFICATIONS: Applications are invited in the following fields: physiology of insects or other invertebrates; developmental biology; cell ultrastructure.

DUTIES: Will include lecturing to junior and senior science biology students and conducting laboratory classes.

The Department has excellent modern facilities for electronmicroscopy, electrophysiology, histo-and cytochemistry, tissue culture and bioacous-tics. The head of the department is Professor G. Burnstock.

It is desirable that the appointees should be able to take up their positions as soon as possible after 1 March 1969.

SALARY RANGE: Is \$5,400 to \$7,300 p.a. (Aust.)

Initial salary will be determined according qualifications and experience. Initial to

Further information, including details of super-annuation, travel and removal expenses, housing assistance and conditions of appointment, is available from the Registrar, (appointment F 84), University of Melbourne, Parkville, Victoria, 3052, Australia. Applications close on 17th January 1969.

UNIVERSITY OF SASKATCHEWAN Regina, Saskatchewan

Canada

The Division of Natural Sciences invites applica-tions for academic posts as of 1 July 1969. Ap-plicants should have completed (or be com-pleting) work for the Ph.D. degree. Duties con-sist of research and teaching at undergraduate and graduate levels. Present student enrollment of 4000 expected to increase to 9500 by 1974-75.

1968-69 Salary Ranges	s: (12-month basis)
Professor	\$16,900-
Associate Professor	\$12,800-\$16,300
Assistant Professor	\$ 9,200-\$12,200
Rank and salary depender	nt on training and ex-

perience. Closing date for applications, 1 Febru-ary 1969.

Biological Sciences

Preferred areas of interest are population genetics, mycology and animal parasitology, but applicants in other areas will be considered.

Chemical Sciences

Preferred areas of interest are analytical chem-istry and biochemistry. **Geological Sciences**

(geochemical background) and structural geology or sedimentology.

Mathematical Sciences

Preferred areas of interest are algebra, geometry, computer science, and applied mathematics, but applications in all fields are invited.

Physics

Specialization open, but a preference exists for a biolophysicist interested in x-ray crystallographic studies of molecular structures, but applications in all fields will be considered.

Send complete curriculum vitae, small graph, and names of three or four ref or request for further information to: small photo-our references,

Chairman, Division of Natural Sciences University of Saskatchewan, Regina Campus Regina, Saskatchewan, Canada

SCIENCE, VOL. 162

POSITIONS OPEN

RESEARCH PHARMACOLOGIST

We are seeking an individual to carry out long-range research in the cardiovascular area relating to fundamental aspects of blood pressure control. Candidates should possess a B.S. or M.S. in the biological sciences, 3 to 5 years' applicable laboratory experience and a working knowledge of electronic equipment (polygraph, tape recorder, stimulator, etc.) used in a physiology laboratory.

In addition to a stimulating research atmosphere and well-equipped laboratories, we offer excellent salary and benefit programs and the opportunity for personal and professional growth.

Please 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

Ph.D. MICROBIOLOGIST

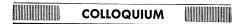
Scientific interest in research aspects of medical microbiology. This position is in our Life Systems Divison and entails coordinating research programs and supervising laboratory technicians and medical technologists.

HAZLETON LABORATORIES, specializing in the life and environmental sciences, is located in the suburban area of Washington, D.C. If you have 0 to 3 years of medically oriented research experience, please send résumé to Mr. Michael J. Mackert.

HAZLETON LABORATORIES, INC. A subsidiary of TRW Inc.

P.O. BOX 30 FALLS CHURCH, VIRGINIA 22046

An Equal Opportunity Employer



Colloquium on Theoretical Biology. The annual NASA-AIBS colloquium will be held at Colorado State University, 13 July to 15 August 1969. It will be concerned with theory of the cell. Preand postdoctoral fellowships are available for some of the participants. The main working parties will be concerned with (1) Time-dependent variation in cells; (2) intracellular relationships and cell reassembly; (3) morphogenesis and pattern generation; (4) self-reproducing automata; (5) information processing by cell assemblies; (6) relational systems and cell theory. For further information write to the Director, Dr. J. F. Danformation write to the Director, Marken States Lea Road, Amherst, New York 14226.

GRADUATE STUDY

Predoctoral Traineeships in Biochemistry are available at the University of Kentucky to qualified U.S. citizens. First-year stipends are \$2400 plus tuition, plus a \$500 allowance for each dependent. Department is well equipped and faculty has varied research interests. Address inquiries to Dr. George W. Schwert, Chairman, Department of Biochemistry, Medical Center, University of Kentucky, Lexington, Kentucky 40506.

6 DECEMBER 1968

Clinical Research Associate

Expansion and acceleration of our R&D program has created an outstanding opportunity for a Ph.D. experienced in NDA-oriented clinical studies of new therapeutic agents. FUNCTIONS: The position, reporting to the Director of Clinical Investigation, entails all activities relating to clinical trials, including development of experimental designs and preparation of protocols, liaison with investigators, monitoring, as well as collection and coalation of data, and supervision of data analyses. The clinical studies, which encompass a broad therapeutic spectrum, include toxicity, pharmacodynamics, dose-response, absorption, fate, and excretion.

QUALIFICATIONS: The candidate, whose Doctorate may be in the Biological or Chemical disciplines, must be conversant with Federal regulations relating to new-drug trials, and have at least 3 years' direct experience with a recognized U.S. ethical pharmaceutical manufacturer in conducting such studies.

Compensation is open, and includes excellent fringe benefits. Your curriculum vitae will be treated in strictest confidence. Send to:

William A. Schuh, Manager Industrial Relations



VETERINARY Pathologist



A newly-created position exists for a Pathologist at the SANDOZ research laboratories. Desired is someone with interest and/or experience in morphological evaluations of effects of drugs on tissues. Position calls for dividing time between light microscopic examinations and electron microscopy (EM).

The person who fills this position will be assigned responsibility for setting up and directing an EM laboratory in TOXICOLOGY/PATHOLOGY.

Previous experience in EM desirable.

SANDOZ offers an excellent fringe benefit program, including liberal vacations and holidays, life insurance, a savings plan, educational assistance, hospital, surgical and major medical programs; as well as many other benefits.

> Call Mr. Jim Sinkway collect: 201 386-7716 Or forward resume in strict confidence, including salary history to Mr. Sinkway



Route 10

An Equal Opportunity Employer m/f

ASSISTANT DIRECTOR of CLINICAL INVESTIGATION

For ethical pharmaceutical company located in Metropolitan New York City.

Previous experience in design and monitoring of clinical investigation desirable, but willing to train qualified candidate. Prefer Board Certification or eligibility in internal medicine.

SALARY BASED ON QUALIFICATIONS Send resume & salary history to:

Box 346-B, 20 W. 43 St., N.Y. 10036

An equal opportunity employer



GRADUATE STUDY

Applications for Advanced Studies in a diversified, creative biochemistry program, including clinical biochemistry, leading to a Ph.D., are now being considered for September 1969. Tuition free. Predoctoral fellowships are available, also postdoctoral fellowships in clinical biochemistry. Chairman, Admissions Committee, Biochemistry Department, State University of New York at Buffalo, Buffalo, N.Y. 14214.

GRADUATE FELLOWSHIPS for study leading to Ph.D. in biochemistry. Excellent facilities and living conditions. Expanding faculty of ten covering most research interests.

Dr. Robert G. Langton, Chairman, Department of Biochemistry, University of Florida College of Medicine, Gainesville, Florida 32601.

GRADUATE TRAINEESHIPS AND FELLOWSHIPS IN BIOCHEMISTRY ST. LOUIS UNIVERSITY SCHOOL OF MEDICINE

OF MEDICINE Large staff and expanded facilities of the Edward A. Doisy Department of Biochemistry offer ideal opportunity for graduate training in major fields of biochemistry and molecular biology leading to Ph.D. degree. Funds available are primarily for U.S. citizens. Beginning stipend \$2400 plus \$500 for each dependent, and cost of tuition and fees. Apply now for academic 1969-70 to; Dr. Robert E. Olson, Chairman, Department of Biochemistry, St. Louis University School of Medicine, St. Louis, Missouri 63104.

PREDOCTORAL ASSISTANTSHIPS AND TRAINEESHIPS IN MICROBIOLOGY AND IMMUNOLOGY

AND IMMUNOLOGY Excellent opportunities for chemistry and biology majors with at least a B average to do graduate work leading to the Ph.D. Ample stipends and free tuition. Training and research in immunochemistry, immunogenetics, molecular and cell biology, virology, mycology, and bacteriology. Write for details to: Dr. Sheldon Dray, Head, Department of Microbiology, 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. Early application for September 1969 strongly advised, Department of Pharmacology, Schools of Medicine and Dentistry, State University of New York at Buffalo, 122 Capen Hall, Buffalo 14214.

PREDOCTORAL FELLOWSHIPS IN PHYSIOL-OGY—Training leading to the Ph.D. with special orientation in physiological control systems, cardiovascular, temperature regulation, endocrinology, and neurophysiology. Emphasis upon preparation for academic careers combining teaching and research. Stipends with tuition and dependency allowance available to qualified undergraduates in engineering, biology, chemistry, mathematics, or physics. A maximum of five new students accepted each year, maintaining a low studentadviser ratio. Detailed information from Department of Physiology, Loyola University, 1400 South First Ave., Hines, Illinois 60141.

RADIATION BIOPHYSICS FELLOWSHIPS. Applications are invited for a M.S. degree program in Radiation Biophysics. Specialities emphasized are medical radiation physics, radiological health, and radiobiology. There are active research programs in these fields in excellent physical facilities of a large medical center complex. Contact Dr. Billy G. Dunavant, University of Florida, College of Medicine, Radiology Department, Gainesville, Florida 32601.

RADIATION HEALTH FELLOWSHIPS: Beginning September 1969. Degree programs leading to M.S. (Hyg.), Sc.D., Ph.D. Background in physics, engineering, biology, chemistry, or medicine required. Active research program in large health center complex. Specialties available in radiation medicine, radiobiology, radiation chemistry, cytogenetcs, health physics, radiation chemistry, cytogenetcs, health physics, radiation ccology and radiological engineering and physics. Full tuition and fees, tax-free stipend of \$3000 to \$4800 per year. Citizens only. Dr. Joseph A. Waison, Radiation Health Division, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pa. 15213.



The Market Place

BOOKS · SERVICES · SUPPLIES · EQUIPMENT

HEAVY WATER

For new lowest prices call

BIO-RAD *Laboratorics* 32nd and Griffin, Richmond, Calif. 94804 Phone (415) 234-4130. Ask for Isotope Sales. Write for new catalog, Price List J.





SCIENCE, VOL. 162

1208