Best Sellers from AAAS

	Price
Air Conservation (ISBN 087168-080-7)	\$ 8.00
Oceanography (ISBN 087168-067-X)	14.75
Estuaries (ISBN 087168-083-1)	27.00
Ground Level Climatology (ISBN 087168-086-6)	12.50
Research for the World Food Crisis (ISBN 087168-092-0)	12.50
Research in the Antarctic (ISBN 087168-093-9)	24.95
Man, Culture, and Animals: The Role of Animals in Huma	
Ecological Adjustments (ISBN 087168-078-5)	8.00
Arid Lands in Transition (ISBN 087168-090-4)	15.75
Folk Song Style and Culture (ISBN 087168-088-2)	16.75
Agriculture and the Quality of Our Environment	10.50
(ISBN 087168-085-8)	13.50
Science in Japan (ISBN 087168-079-3)	13.00
Biology of the Mouth (ISBN 087168-089-0)	10.00
Environmental Variables in Oral Disease	
(ISBN 087168-081-5)	8.75
Mechanisms of Hard Tissue Destruction	
(ISBN 087168-075-0)	8.75
Systems of Units: National and International Aspects	
(ISBN 087168-057-2)	6.75
Symposium on Basic Research (ISBN 087168-056-4)	3.00
Civil Defense (ISBN 087168-082-3)	4.00

Send orders to Dept. W

AMERICAN ASSOCIATION for the ADVANCEMENT OF SCIENCE 1515 Massachusetts Avenue, N.W. Washington, D. C. 20005

AVON CALLING TOXICOLOGISTS

TOXICOLOGISTS

Because of expansion in our Toxicology Dept. we are seeking three individuals to join our staff.

One position will be responsible for the administration and supervision of the Biological Evaluation Section consisting of our animal testing program. Individual should have an advanced degree and indepth experience in toxicology and administration.

Another position will be a staff position responsible for our Inhalation Testing Program. It is important to have a background in respiratory physiology, aerosol physics, chamber design, particle size analysis and other aspects of an inhalation program.

The third position is a staff position responsible for conducting a major portion of our animal testing program. The individual must have experience in a toxicology dept. involved in carrying out safety evaluation programs.

Avon can offer you a dynamic professional environment in which to work and a successful business environment in which to grow. Our Research Facilities are located 35 miles northwest of New York City in Suffern, New York at the foot of the Ramapo Mountains.

If you wish to be considered for these positions, please submit a current resume including your salary history and salary expectations to Personnel Manager.

AVON PRODUCTS, INC.

Division Street, Suffern, N.Y. 10901

An Equal Opportunity Employer M/F

Personnel Placement

POSITION 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

companies take display rare for all auvertising.

POSITIONS OPEN: \$110 per inch. 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 to 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

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, tenured, with extensive teaching and research experience; publications; grants; seeks change to a vigorous department. Will consider a a chairmanship. Box 384, SCIENCE.

Biochemist, Ph.D. Extensive research experience in lipid enzymology. Present research in unsaturated fatty acid synthesis in hepatomas. Seeks teaching and/or research position. Box 385, SCIENCE.

POSITIONS WANTED

Environmental Physiologist, Ph.D. Nine years of teaching (human, cellular, and comparative physiology, biology, bioinstrumentation, others) and research (energy metabolism, thermoregulation, cardiovascular, adaptations to cold, arctic ecology). Publications. Grants. Desires challenging creative research, teaching, or administrative position in or out of academia. Box 386, SCIENCE.

POSITIONS OPEN

Recent Ph.D. in Biochemistry interested in ethanol and intermediary metabolism to work on myocardial metabolism in large midwestern, university-affiliated VA hospital. Send curriculum vitae to Chief, Personnel Division, 54th Street and 48th Avenue South, Minneapolis, Minnesota 55417. An equal opportunity employer.

EDITOR/LIFE SCIENCES

Editor with proven record in acquisition of highlevel research books and/or periodicals sought by major sci-tech publisher. Send résumé.

Box 383, SCIENCE

MANAGER BOTTLING AND DESICCATION

B.S. or M.S. degree or equivalent in physics, physical chemistry, or industrial engineering. Theoretical knowledge and practical experience in yophilization especially as it relates to lyophilization of live virus vaccines, will be extremely helpful and desirable.

Must be able to organize and operate a three-shift bottling and desiccation unit totaling 3 working supervisors and 13 employees. Reports to Director of Production.

Submit résumé and salary history in complete confidence to:

Diamond Laboratories, Inc. P.O. Box 863 Des Moines. Iowa 50304

POSITIONS OPEN

Kitt Peak National Observatory has several openings for theoretical and observational astronomers and is now soliciting applications. Applications are also being taken for postdoctoral positions. Applications, vitae, and letters of reference should be sent to:

KITT PEAK NATIONAL OBSERVATORY

Director Kitt Peak National Observatory P.O. Box 4130 Tucson, Arizona 85717

CERRO TOLOLO INTER-AMERICAN OBSERVATORY

The Cerro Tololo Inter-American Observatory has an opening for an astronomer to assist in science-related administrative work, which also allows some independent research time. Spanish fluency is desirable but not essential. Application, vita, and letters of reference should be sent to:

Director
Cerro Tololo Inter-American
Observatory
Casilla 63-D
La Serena, Chile
AN EQUAL OPPORTUNITY EMPLOYER

NEUROCHEMIST OR NEUROBIOLOGIST

with research interests relevant to Mental Retardation. Appointment as an Investigator in the Kansas Center for Mental Retardation and Human Development and to an appropriate department at the University of Kansas Medical Center. Candidates should have already demonstrated research proficiency several years past the postdoctoral level. Send curriculum vitae and three references to Dr. Gilbert S. Greenwald, Kansas Center for Mental Retardation and Human Development, University of Kansas Medical Center, Kansas City, Kansas 66103. We are an equal opportunity employer.

LABORATORY OF NEUROPHYSIOLOGY HADASSAH UNIVERSITY HOSPITAL, JERUSALEM

Neurophysiologist required to direct and carry out research in ongoing program in the electrophysiology of the CNS. Experience in microelectrode techniques and computer analysis required. Academic position according to qualifications of candidate. Apply to Prof. Shaul Feldman, Head, Department of Neurology, Hadassah University Hospital, Jerusalem, Israel. **Opportunities**

for

POSTDOCTORAL RESEARCH

in

Federal Laboratories

through the NRC Research Associateship **Programs**

Postdoctoral scientists and engineers interested in advanced research in the natural and applied sciences are invited to consider the National Research Council's Research Associateship Programs. These programs, conducted on behalf of a number of Federal research organizations with laboratories at more than 80 geographic locations, provide opportunities for appointees to pursue research problems of their own choice which are compatible with research programs in participating laboratories.

Research Associateships are intended for individuals with less than 5 years postdoctoral experience; Senior Research Associateships are open to those 5 years or more beyond the doctorate. Some programs are open to foreign nationals.

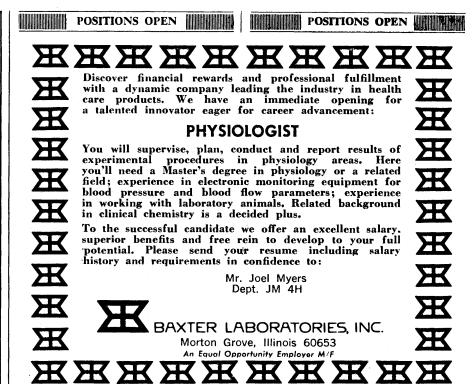
Appointments will be awarded on a competitive basis and will be temporary, generally for a one-year period. Tenure may begin on or after July 1, 1973. Stipends will vary with type of appointment and qualifica-

Completed applications will be accepted until January 15, 1973. Further information and application materials can be obtained from:

> Associateship Office JH 606-S

NATIONAL RESEARCH COUNCIL

2101 Constitution Avenue Washington, D.C. 20418



RESEARCH IN IMMUNOLOGY

Postdoctoral fellowships and predoctoral studentships available for research in: immunochemistry membrane phenomena, hypersensitivity, and tumor immunology. Please submit detailed applications to: Dr. A. H. Sehon, Head, Department of Immunology, Faculty of Medicine, University of Manitoba, Winnipeg, Canada, R3E OW3.

SEISMOLOGIST

Geological Survey, New York State Science Service. Senior staff position in research and applied seismology. Potential collaboration with geologists and seismologists. Requires doctorate and four years seismology experience. Competitive salary, excellent fringe benefits, moving expenses. Send résumés to Mr. George Delamar, Personnel, State Education Department, Albany, New York 12224. An Equal Opportunity Employer.

Do You Need NITRUGEN-15?

For lowest prices, call (415) 234-4130 or write for our newest isotope catalog.

> &BIO-RAD Laboratories 32nd & Griffin, Richmond, Calif.

AGE DETERMINATION

Dating by 14C,40K/40Ar,87Rb/87Sr, U/Pb and other methods.

TELEDYNE ISOTOPES
50 VAN BUREN AVENUE
WESTWOOD, N. J. 07675
(201) 664-7070

STATEMENT REQUIRED BY THE ACT OF 12 AUGUST 1970: SECTION 3685, TITLE 39, UNITED STATES CODE SHOWING THE OWNERSHIP, MANAGEMENT AND CIR-CULATION OF

SCIENCE published weekly on Friday except the last week in December, but with an extra issue on the third Tuesday in November at 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Date of filing: 29 September 1972. This is also the address of the publisher, editor, and managing editor, who are, respectively, William Bevan, Philip H. Abelson, and Robert V. Ormes.

The owner is American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Stockholders: None.

Known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages or other securities: None.

The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes have not changed during preceding 12 months.

The average number of copies each issue during preceding 12 months are (A) Total No. copies printed: 8,669,000; (B) Paid circulation: (1) sales through dealers and carriers, street vendors, and counter sales: 855; (2) mail subscriptions: 8,358,018; (C) Total paid circulation: 8,358,873; (D) Free distribution by mail, carrier or other means: (1) samples, complimentary, and other free means: (1) samples, complimentary, and other free copies, 214,934; (2) copies distributed to news agents, but not sold: 507; (E) Total distribution: 8,574,314; (F) Office use, left-over, unaccounted, spoiled after printing: 94,686; (G) Total: 8,669,000.

Actual number of copies of single issue published nearest to filing date are (A) Total No. copies printed: 160,300; (B) Paid circulation: (1) sales through dealers and carriers, street (1) sales through dealers and carriers, street vendors and counter sales: 10; (2) mail subscriptions, 153,501; (C) Total paid circulation: 153,511; (D) Free distribution by mail, carrier or other means: (1) samples, complimentary, and other free copies: 4,963; (2) copies distributed to news agents, but not sold: 19; (E) Total distribution: 158,493; (F) Office use, left-over, unaccounted, spoiled after printing: 1,807; (G) Total: 160,300. over, unaccounted, (G) Total: 160,300.

I certify that the statements made by me above re correct and complete.

(signed) HANS NUSSBAUM Business Manager

Fluoressentials

Three important reasons why Baird leads in fluorescence technology:

The Fluorispec.

The FLUORISPEC designed to provide the utmost versatility for sophisticated research and difficult routine analyses. The only spectro-fluorimeter to employ two dual monochromators for complete isolation of excitation and emission spectra. Scattered light is virtually eliminated ensuring maximum separation of sample peak from the Raman or Rayleigh scatters peaks, and maximum sensitivity at low light levels. Automatic



or manual scanning cover both excitation and fluorescent spectra from 220 to 700 nanometers. A built-in off-axis ellipsoid mirror xenon lamp illumination system with conveniently located externally operated position controls provides maximum light input at all times. Adjustable slits can be independently set at the entrance and exit slits of each double monochromator so that the optimum combination of intensity and resolution for a given problem can be achieved. All solid state electronics provide stable readout on front panel meter or an X-Y recorder, with expandable wavelength scale. Large sample compartment located front center of the instrument accommodates a wide variety of accessories including a phosphoroscope, microsampler, low temperature analyzer, polarization kit, chromatogram scanners, etc.

The Fluoripoint.

Fluorescence Spectrophotometer with f/3.5 grating excitation and emission monochromators. The only low-cost fluorescence instrument designed for phosphorescence. Linear wavelength range from 220 to 770 nm in the excitation mode, and 250 to 800 nm in the emission mode, with zero order position, for recording of total fluorescence, and built-in wavelength calibration using source lines, 10 or 20 nm bandpass,



large 3-1/2" wide x 6" deep x 4" high sample compartment with a four position sample turret. Readout on a 5-inch mirrored scale, with output jack for recorder. Single switch monochromator/recorder synchronization insures wavelength accuracy and repeatability. Wavelength scan of 1 nm per second. The electronic system includes an EMI 9771 B photomultiplier tube (interchangeable with other types), solid state photomultiplier power supply and amplifier. Can accommodate complete line of Fluorispec accessories including phosphorescence, polarizers, strip and thin layer chromatogram scanners, etc.

The Fluorimet.

The FLUORIMET filter fluorimeter is designed to bring the advantages of fluorescence analysis within the reach of the smallest laboratory. The instrument has a wide range of applications, particularly in the field of medicine. Such routine estimations as cortisol, magnesium, catecholamine, phenylalanine and porphyrin can be made both rapidly and accurately. Solid state electronic circuits are employed and operate



from a stabilized power supply that is an integral part of the instrument. The FLUORIMET makes use of a low wattage mercury lamp and the standard detector is a 931 A photomultiplier tube. Three operating controls are all that's necessary to make simple and rapid determinations of sample concentration. Readout indication is displayed on a 5-inch linear meter scale graduated from 0-100 percent. Wavelength selection is accomplished by using either Chance glass filters or Baird-Atomic interference filters. The instrument is normally used with economical, glass sample-tubes but cylindrical quartz sample-tubes can be supplied if required.

For additional essential information write or call



SPECTROCHEMICAL EQUIPMENT DIVISION

TELEPHONE: (617)276-6101

125 MIDDLESEX TURNPIKE, BEDFORD, MASSACHUSETTS 01730 BAIRD-ATOMIC (EUROPE) N.Y., VEENKADE 26-27, THE HAGUE, HOLLAND BAIRD-ATOMIC LIMITED, EAST ST., BRAINTREE, ESSEX, ENGLAND

It took us years to develop the best stereo microscope.

Now give us a few minutes to prove it.

Let us compare our StereoStar/ZOOM to any stereoscopic microscope in your lab.

Our microscope offers high resolution, larger fields of view, greater working distance. We have as wide a magnification range as you're likely to need: a full 6 to 1 zoom range with magnifications from 3.5 X through 210 X. The zoom control knob is coupled—so that it's conveniently located on both sides, for either left or right-hand operation. And the entire head is easily rotatable through 360°.

135 years of optical excellence went into the AO StereoStar/ZOOM. Let us compare it to any stereo microscope in your lab. After all, if it's worth your money, it's worth your time.

Call your AO Representative. Or write for our convincing 24-page brochure.



SCIENTIFIC INSTRUMENT DIVISION . BUFFALO, N.Y. 14215

