

# AAAS Symposia as Textbooks

## Man, Culture, and Animals

*Man, Culture, and Animals* is now in its third printing. First published in 1965, it is being used increasingly as a college textbook in anthropology. It grew out of a AAAS symposium, "The Role of Animals in Human Ecological Adjustments."

Edited by Anthony Leeds and Andrew P. Vayda. 304 pages. Bibliography. Retail price: \$8. AAAS member price when payment is sent with order: \$7.

## Air Conservation

Recent emphasis on the environment has put this 5-year-old AAAS volume into the textbook category. *Air Conservation* is the Report of the Air Conservation Commission of the AAAS, James P. Dixon, Chairman. The volume has suddenly found wide use by environment-conscious students and teachers.

2nd printing, 1968. 348 pages. Illustrated. Bibliography. Index. Retail price: \$8. AAAS member price when payment is sent with order: \$7.

Send your order today to

**AAAS Publications**  
Suite 100, 1515 Massachusetts Ave., NW  
Washington, D.C. 20005



The Department of  
Medical and Physiological Physics of  
Utrecht State University, The Netherlands  
Applications are invited for the position of

## SENIOR PROGRAMMER

with a M.Sc. or Ph.D. degree in physics, mathematics of computer science.

His task will be the development of system programs and standard software. He will be free to devote part of his time to research at one of the departments of Utrecht University.

The hardware facilities include a Control Data 1700 computer with a 20 K core-memory, 2 discs and A/D and D/A conversion equipment. This system is employed for on-line processing of data obtained in experiments in medical physics.

After he has made himself thoroughly familiar with the various programming work, the appointee should be able to perform his task independently.

His appointment will be according to University arrangements which include a salary ranging between fl.1.800,—depending on fl.3.600,—(dutch guilders). An extra 6% vacation money is paid. Please send your enquiries and applications to: Prof. Dr. Maarten A. Bouman, or Prof. Dr. Jan J. Denier van der Gon, Department of Medical and Physiological Physics of Utrecht State University

Eisenhowerlaan 4  
Utrecht  
The Netherlands  
Phone: 030-938848

## Personnel Placement

### RATE CHANGE Effective 1 January 1971

**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.

**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  
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-Chemist** Ph.D. Broad research interest and experience, college teaching, pharmaceutical, hospital clinical chemistry, and cancer. Desires academic, research, institute, or industry. Publications. Early reply. East. Box 126, SCIENCE. X

### POSITIONS WANTED

**Biochemist**, Ph.D. 1969. Predoctoral training in enzymology. Postdoctoral experience in immunochemistry. Seeks teaching and research position or undergraduate teaching position in biochemistry or biology. Box 127, SCIENCE. X

**Biochemist**, Ph.D., 1968. Third-year postdoctoral fellow seeks academic or research position. Experienced in enzymology, phospholipids, membrane transport, and enzyme purification and solubilization. Publications. T. D. Hexum, Department of Pharmacology, University of Wisconsin Medical Center, Madison, Wis. 53706. X

**Biologist-Endocrinologist:** Ph.D., 8 years' research/teaching experience (graduate/undergraduate). Seeks teaching position with curriculum development and some research opportunity in small college or university. Box 128, SCIENCE. X

**Geneticist**, Ph.D., 35, 9 years of university experience, seeks position in small private college. Box 95, SCIENCE. X

**Medical Writing**, rewriting, editing, literature searches. Free-lance. Highest references. Box 129, SCIENCE. X

**Microbiologist**, Ph.D., MT (ASCP). Seeks position in clinical laboratory environment. Experience in medical bacteriology, immunology, immunohematology and diagnostic cytology. Also research and teaching experience. Box 118, SCIENCE. 3/19

**Time Series Analyst**, Ph.D. applied stochastic processes, Purdue, 1970. Publications, 10 years of research and computer simulation experience. Seeks postdoctoral biomedical research appointment involving data collection and analysis, as examples, spectral estimation, correlation analysis and filtering of EEG, ECG, or experimental ICU data, and statistical modeling of biomedical systems. Box 130, SCIENCE. X

**Vertebrate Zoologist**, Ph.D. Interests and research in vertebrate physiological ecology and animal ecology. Publications. Postdoctoral work. Presently assistant professor of biology. Desires teaching/research position. Box 131, SCIENCE. X

**Water/AIR Pollution Instrumentation Research Scientist**, Ph.D. Academic research on consulting. Inventor, Theoretician. Box 132, SCIENCE. X

### TEACHERS and ADMINISTRATORS NEEDED

For Universities and Colleges throughout the United States. Our Nationwide Academic Placement Service since 1890 offers excellent opportunities to qualified individuals in higher education. Send résumé to E. E. Hansbrough, President, American College Bureau and University and College Staffing Center, 327 S. La Salle Street, Chicago, Ill. 60604.

## MEDICAL VIROLOGIST — Ph.D. —

Senior level position available in our antiviral chemotherapy-interferon research program. Incumbent will play key role in on-going research and in the development of future programs, and supervise research group of associate scientists and technicians.

Requirements include training in Microbiology through the Ph.D. level, with some experience in animal virus area. Medical and biochemical orientation and interest desirable.

Excellent salary and benefits policy, including liberal relocation program.

**FRANCIS J. BESTON**  
Director of Scientific Employment

**SK & F SMITH KLINE & FRENCH  
LABORATORIES**

1536 Spring Garden Street  
Philadelphia, Pa. 19101

*an equal opportunity employer*

POSITIONS OPEN

**ENDOCRINOLOGIST**

Ph.D. or M.D.

Wyeth Laboratories, Inc. is soliciting applications for an individual to head the Endocrinology Section in the Research Division. Candidates should possess a Ph.D. or M.D. degree and should have had several years of scientific experience, some of which should have been in the area of reproductive endocrinology. It is desirable that candidates have had industrial research and managerial experience. The Wyeth Research Division of Wyeth Laboratories is located at Radnor in the Main Line suburban area, 12 miles west from Philadelphia.

Interested persons should send a resume of education and experience to:

Charles L. Smith

**Wyeth Laboratories, Inc.**

P.O. Box 8299

Philadelphia, Penn. 19101

U.S.A.



**ERINDALE COLLEGE  
UNIVERSITY OF TORONTO**

Applications are invited for three positions in BOTANY for the 1971-72 term.

1. **PLANT GENETICIST** of broad training and interests to cooperate with a Zoologist in a Genetics course and to teach sections of a General Botany course.

2. **CELL BIOLOGIST or DEVELOPMENTAL BIOLOGIST** who would cooperate with other colleagues in presenting a course in Cell Biology and another in Developmental Biology.

3. **ECOLOGIST** with autoecological experience, and interests in population and environmental ecology. He will be expected to organize and cooperate with other biologists in presenting an elementary course dealing with man's impact on the environment, to develop an advanced course in Applied Ecology, and to assist with a Plant Ecology course.

Candidates must have completed the Ph.D. at the time of appointment and may be considered for the lecturer (minimum salary \$8,600), Assistant (\$10,500) or Associate Professor (\$13,000) level. They should have interests in teaching and research and be capable of developing a research program and training graduate students.

Applications with relevant documents to **Dr. P. F. Maycock, Ecology Laboratory, Erindale College, University of Toronto, 3359 Mississauga Road, Clarkson, Ontario, Canada.**

**MICROBIOLOGIST**

A broad Microbiology base with experience in immunology and virology may qualify you as head of quality control with up and coming young animal vaccine manufacturer. You will also serve as assistant to research director. B.S. minimum requirement, advanced degree preferred, experience and own future desires most important. Send résumé and salary requirement to: **Amerlab, Inc., Tapawingo Drive, Gainesville, Ga. 30501**, in full confidence or phone 404-534-4585.

**THE UNIVERSITY OF MELBOURNE—  
AUSTRALIA**

**SENIOR LECTURESHIP  
AND LECTURESHIP**

**SCHOOL OF MICROBIOLOGY**

Melbourne University's School of Microbiology is the largest in Australia, occupies a well-equipped new building, and has an academic staff of 15, plus 5 postdoctoral fellows, 20 research students, and about 40 ancillary personnel. Research facilities are outstanding, with current emphasis on virology, bacterial genetics, immunology, industrial microbiology, and medical microbiology. Applications are invited from active research workers with a few years of postdoctoral experience in any field, especially bacterial ecology, medical bacteriology, or immunology.

**SALARY:** Senior Lecturer \$9,000 to \$10,500 p.a.  
Lecturer \$6,318 to \$ 8,760 p.a.

A detailed description of the School and its work may be obtained from Professor David White. Further information, including details of superannuation, travel and removal expenses, housing assistance, and conditions of appointment, is available from **The Registrar, University of Melbourne, Parkville, Victoria, 3052, Australia.** Refer to positions 105 and 106. Applications close on 15 May 1971.

POSITIONS OPEN

**Literature  
Scientist**

Rewarding opportunity for BS or MS with interest in medical literature. As a member of our Scientific Literature Department, you will have the opportunity to collaborate closely with scientists of varying disciplines within our research division. Primary responsibilities include searching, evaluating, abstracting and indexing articles from domestic and foreign medical publications dealing with our products and our areas of interests. Facility with German essential.

Roche offers an environment in which personal growth is encouraged. Our location in suburban Nutley, New Jersey is within easy commuting from New York City. Interested applicants should send resume stating salary requirements to:  
E. Meseck, Associate Personnel Manager.



**Hoffmann-  
La Roche Inc.**

**NUTLEY, NEW JERSEY 07110**  
An Equal Opportunity Employer

**OCEANOGRAPHER** with specialty in physical aspects of Marine Science needed. Leading coastal and estuarine research Institution seeks an experienced Ph.D. with competence and interest in administration to fill newly-established, permanent position as Assistant Director for chemical, geological and physical oceanography involving research, planning and direction, administration, and graduate teaching. Will head major programmatic division in environmentally oriented, public-supported research institute. Position supported by local funds. If interested, please reply with appropriate résumés to

Box 125, SCIENCE

**SALES MANAGER**

We are seeking a person experienced in the sale of laboratory equipment, preferably related to animal research. Sales are generated thru catalog and advertising, requiring minimal travel.

A small but leading manufacturer in the animal housing field, we offer a challenging opportunity and many special benefits.

Send complete résumé to:

**F. N. Schroen, President**  
**Unifab Corp.**  
5260 Lovers Lane  
Kalamazoo, Mich. 49002

**SCIENCE DIVISION CHAIRMAN**

New 4-year women's college seeks chairman for interdisciplinary program in the sciences. Plant physiologist, plant ecologist, preferred. Highest priority given to teaching, administrative competence, and breadth of interests. **Science Division, Kirkland College, Clinton, N.Y. 13323.**

**SCIENTIST**

Small innovative liberal arts college, 300 students, 30 faculty, seeking scientist with emphasis in physics and chemistry interested in developing program teaching science to nonscientists. Ph.D. preferred but not required.

Send vitae to

Box 133, SCIENCE

POSITIONS OPEN

**Postdoctoral Position** is open for **Immunochemical Research**. The applicant should have a Ph.D. degree, be a biochemist experienced in enzyme stabilization and purification, and be a U.S. citizen or permanent resident. Send your curriculum vitae to:

**Immunology Laboratory**  
**Department of Dermatology**  
136 Harrison Avenue  
Boston, Massachusetts 02111

COURSES

**MOLECULAR TECHNIQUES IN  
DEVELOPMENTAL BIOLOGY**

Summer Workshop to be held 1 to 31 July at the San Diego (La Jolla) campus of the University of California. The workshop emphasizes laboratory instruction; enrollment restricted to 20 participants; expenses paid by the National Science Foundation. For further information and application forms write to **Dr. H. Stern, Department of Biology, University of California San Diego, La Jolla, California, 92037.** Deadline for applications: 5 April 1971.

Special Summer Program on  
**ENZYMES AND THEIR USE IN  
ANALYSIS AND CLINICAL DIAGNOSIS**  
Massachusetts Institute of Technology  
12-16 July 1971

The program (lectures and demonstrations) will provide a comprehensive theoretical and practical knowledge in *applied enzymology*. The course will develop an awareness for the multiple areas of application of enzymatic assays.

For further details and application forms, write **Director, Summer Session, Room E19-356, M.I.T., Cambridge, Mass., 02139.**

**The Market Place**

PROFESSIONAL SERVICES

**ECONOMIDES & GOLDBERG**

**Consulting Engineers**

Design Investigations Reports  
Drawings & Specifications  
Mechanical and Electrical Systems & Services  
for Laboratories, Test, Research & Process  
Facilities  
Air Conditioning, Refrigeration, Laboratory  
Exhaust, Laboratory Services, Lighting, Power  
Distribution, Power Generation, Incineration  
& Environmental Control  
110 East 30th Street New York 10016  
212-683-6889

Do You Need.....

**NITROGEN-15?**

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

**BIO-RAD Laboratories**

32nd & Griffin, Richmond, Calif.

**Daniel S. Greenberg's  
Science & Government Report**

The authoritative source of information on science-policy affairs in Washington

(With an occasional commentary by Dr. Grant Swinger, Director of the Breakthrough Institute)

Published twice monthly,  
\$25 per year (\$35 overseas)  
P.O. Box 21123, Dept. S  
Washington, D.C. 20009

The new IEC B-20A High Speed Refrigerated Centrifuge is a versatile, general purpose research instrument designed for broad applications in medical, industrial and research laboratories. It offers the medical and research community large volume and high resolution capabilities at speeds from 1,000 to 20,000 rpm, and has a complete selection of accessories designed to meet the most exacting requirements of speed, gravity and volume.

Six heads, including two swinging buckets, zonal rotors, most ultracentrifuge angle rotors, and a broad selection of accessories make the IEC B-20A ideal for separation of whole cells, nuclei, mitochondria, lysosomes and other cellular organelles. Gravities to 45,500 xg. Maximum volume is 1,500 ml (6x250).

**Applications:** Differential separation of mitochondria, lysosomes, other cellular organelles and membranes • Centrifugal filtrations • Precipitate proteins • Clarification of particulate suspensions • Concentration, purification and separation of micro particles from ribosomes to whole cells • Latex particle size and density distribution studies • Density gradient studies of small volume preparations using horizontal heads • Macromolecular preparations

• Isopycally banding or pelleting of subcellular particles, bacterial and whole cells.

**Zonal Centrifugation:** IEC's line of zonal rotors broaden the B-20A's capabilities and facilitate entirely new standards in techniques, precision and overall centrifuge efficiency previously impossible with a 20,000 rpm machine. With zonal rotors, the B-20A can process sample volumes from 10 ml to over 100 ml using density gradient techniques, and up to 800 ml in many isopycnic applications.

**Some examples:** The B-29 zonal rotor can process up to 2,000 mg of ribosomes in a single run • Separation of microsomes, lysosomes, mitochondria and nuclei can be obtained in one run with the smaller volume B-30 rotor • The Z-15 rotor, with its larger initial radius, increases efficiency nearly 300% and allows subcellular particle separations for most cell systems to be completed in less than four hours • A continuous flow insert, together with the Z-15, can be used for isopycnic banding and pelleting, and will concentrate up to 75 liters of bacteria (one micron diameter) culture in an eight hour day. The cells can be suspended in a gradient to insure their survival during the separation and may be recovered concentrated in less than 100 ml of gradient media.

The B-20A is backed by IEC's more than 70 years of experience in the centrifuge field, and years of use in hundreds of laboratories around the world. If you want to know more about this versatile 20,000 rpm centrifuge that does almost anything, write Dept. B-20A, International Equipment Co., 300 Second Avenue, Needham Heights, Mass. 02194. Or see your IEC dealer.

# THE 20,000 RPM SUPERCENTRIFUGE

## Is There Anything It Can't Do?



 **INTERNATIONAL EQUIPMENT CO.**  
A DIVISION OF DAMON

Circle No. 3 on Readers' Service Card

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°.

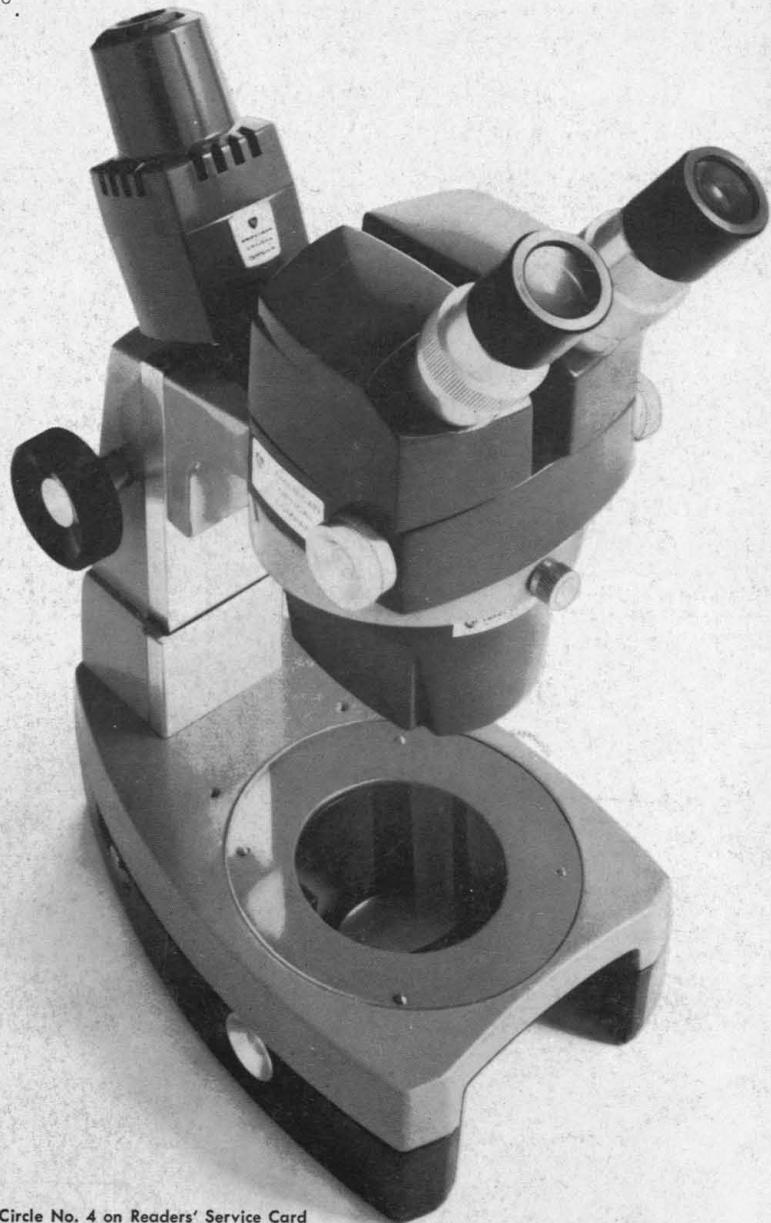
135 years of optical excellence went into the AO StereoStar/ZOOM. Let us compare it to any stereo microscope in your lab. After all, if it's worth your money, it's worth your time.

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



**AMERICAN OPTICAL  
CORPORATION**

SCIENTIFIC INSTRUMENT DIVISION • BUFFALO, N.Y. 14215



Circle No. 4 on Readers' Service Card