

## Uses the tools of economic analysis to deal with environmental problems

Freeman, Haveman & Kneese show how a few economic and physical principles can help students think systematically about the interconnectedness of the environment and the economy.

The book discusses ways to put economic incentives to work toward improving the use of "common property" environmental resources. And it makes suggestions on the design of institutions for collective action leading to improved environmental quality.

### THE ECONOMICS OF ENVIRONMENTAL POLICY

By A. Myrick Freeman III, Bowdoin College, Robert H. Haveman, University of Wisconsin, and Allen V. Kneese, Resources for the Future, Inc. Jan. 1973 184 pp paper \$3.95

For more information, contact your Wiley Representative or write T. R. Poston, Dept. 1250, N. Y. office.

### JOHN WILEY & SONS, Inc.

605 Third Avenue, New York, N.Y. 10016  
In Canada: 22 Worcester Road, Rexdale, Ontario  
Price subject to change without notice.

**wiley**

## Schwarz/Mann Bulletin Board



### High specific activity deoxynucleotides available from Schwarz/Mann

Cat. No.		0.25mC	1.0mC	5.0mC	25mC
2433-58	Deoxyguanosine 5' Triphosphate (8- <sup>3</sup> H) Li.	\$51.50	\$123.50	\$391.50	
2433-56	Deoxyguanosine 5' Triphosphate (8- <sup>3</sup> H) Na.	\$51.50	\$123.50	\$391.50	
	Specific Activity 10-c/mM				
2433-94	Thymidine 5' Triphosphate (Methyl- <sup>3</sup> H) Li.	\$51.50	\$125.00	\$391.00	
2433-95	Thymidine 5' Triphosphate (Methyl- <sup>3</sup> H) Na.	\$51.50	\$125.00	\$391.00	
	Specific Activity 40-60c/mM				

### Also available at high specific activities

2533-98	Thymidine (Methyl- <sup>3</sup> H)	\$12.50	\$35.00	\$100.00	\$400.00
	Specific Activity 40-60c/mM				
1533-90	Uridine (5, 6- <sup>3</sup> H)	\$15.50	\$40.00	\$105.00	\$345.00
	Specific Activity 40-60c/mM				

### Immediately available from stock

Please write to Schwarz/Mann  
Division of Becton, Dickinson and Company [B D]  
Orangeburg, New York 10962  
Telephone 914-359-2700

## 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.

**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

**Cell Biologist**, Ph.D., woman, established research scientist and innovative university teacher with broad interests in genetics and physiology of cells, social aspects of science; some administrative experience. Seeks nontemporary position compatible with female person who will exhibit high degree of intelligence, autonomy, and creativity on job. Will consider nonacademic positions. Box 170, SCIENCE. X

30 MARCH 1973

### POSITIONS WANTED

**Analytical/Physical Chemist**, Ph.D., 1973. Seeks research position involving structural aspects of molecular biology. Special interest in conformational transitions of biopolymers and fast reaction kinetics. Write Gary Parr, Chemistry Department, University of Wisconsin, Madison, Wisconsin 53706. X

**Animal Virologist**, 29, D.V.M., Ph.D. Broad research interests. Experienced in tumor virology and immunology, and infectious diseases. Desires challenging position in research or research-teaching. Box 171, SCIENCE. X

**Biologist**, Ph.D. 1968. Physiologist/Microscopist. Innovative educator with research in herbicides and pesticides, photosynthesis, and rhythmic phenomena. Dynamic personality, administrative ability, able to present scientific information clearly and interestingly to both colleagues and nonscientists. Seeks industrial position in R & D or marketing. Box 172, SCIENCE. X

**Chemist, Analytical/Inorganic/Nuclear**, Ph.D. 1955. Familiar with most physical-analytical instruments, tracer methods, microscopy and microanalysis, nuclear materials chemistry. Experience with evaluations, academic, legal, and engineering problems. Interested in teaching/research opportunity. Box 173, SCIENCE. X

**Ph.D. Cytology, Electron microscopy, Tumor research**, 12 years' experience university, government, excellent teacher, desires senior level challenging position. Box 174, SCIENCE. 4/6, 13

**Ecologist/Marine Biologist/Parasitologist**, Ph.D. 1973. Considerable expedition and field experience; able photographer. Desires ecological research, interdisciplinary teaching or public information-media position. Box 175, SCIENCE. X

**Electron Microscopist-Biophysicist**, Ph.D. 1972 Caltech. Experience in biological specimen preparation; cathodoluminescence; SEM and TEM, optics, electronics, and instrument construction. Seeks position in research, development, share of service work, teaching. D. Nohr, 131-30, Caltech, Pasadena, Calif. 91109. X

### POSITIONS WANTED

**Entomologist-Ecologist**, 28, Ph.D. on Lepidoptera population biology-behavior, 15 publications, seeks research, teaching/research, or industry/agriculture position. Scott, 60 Estes, Lakewood, Colo. 80226. X

**Fishery Biologist**, M.A., 1971. Seven years' experience specializing in environmental impact studies. Relocate western states. Box 177, SCIENCE. X

**Geneticist**, recent Ph.D., Canadian citizen, trained in botany, biochemistry, and genetics, with teaching and research experience. Seeks teaching or teaching/research position, preferably in Canada. Box 178, SCIENCE. X

**Histologist/Experimental Hematologist**, Ph.D. Seeks challenging teaching/research or creative research position. Research interests—humoral regulation of normal and leukemic hemopoiesis, stem cell kinetics, in vitro and in vivo hemopoietic colony regulation. Teaching experience—histology, experimental hematology, comparative hematology. 20+ publications. Box 141, SCIENCE. 4/13

**Immunologist-Microbiologist**, Ph.D., woman, 33, postdoctoral research, teaching experience, publications. Special fellow of NIH. Desires academic position. Cell-surface antigens, biochemistry and structure of biological membranes, general immunology, immunochemistry of bacterial enzymes, tissue culture. Box 179, SCIENCE. X

**Invertebrate Physiologist**, Ph.D. 1964. Broad teaching experience, many publications in aquatic crustacea, excellent recommendations, seeks academic position that requires quality. Box 180, SCIENCE. X

**Instrumentalist**, Ph.D. analytical chemistry. Biochemical experience, especially automated protein sequence determination. Will keep your sequencer and/or other instruments happy and productive. Box 181, SCIENCE. X

## POSITIONS WANTED

**Endocrinologist/Reproductive Physiologist/Veterinarian.** Ph.D. Three years' postdoctoral experience. Research: Female reproduction, biochemistry of hormone action, radioimmunoassays, experimental surgery. Teaching: histology, reproductive physiology to undergraduate and graduate students. Numerous publications. Seeks teaching or industrial position. Box 176, SCIENCE. X

**M.D., Ph.D.,** with fine research accomplishments, numerous publications (infection, cellular immunity, bone marrow, leukemias), seeks research/administration position in related biomedical fields including cancer. Box 192, SCIENCE. X

**M.D., Ph.D.** research team have discovered reliable method for detecting minor brain damage in experimental animals. Desire two positions in collaboration with neurosurgeon(s), neurologist(s) for purpose of team R & D of human test procedure. Box 182, SCIENCE. 4/6

**Microbiologist (genetics)** Ph.D. Female with postdoctoral training. Effective teacher, medical and graduate school experience. Research in transport systems in enteric microorganisms, R factors, and genetics of antibiotic resistance. Clinical interests in enteric disease. Publications. Desires teaching/research or research position in New England area. Box 183, SCIENCE. X

**Molecular Biologist-Microbiologist,** Ph.D. 1971, 2 years' postdoctorate in biochemical cancer research, publications, interested in industry or research position where knowledge in biostatistics and computer programming could be applied. Box 184, SCIENCE. X

**Neurobiologist,** M.D. with long experience and publications on experimental clinical neurology. Strong background in electron microscopy, immunofluorescence of neurotransmitters in neuroendocrinology, autonomic systems, psychoactive drugs. Desires academic research-oriented position. Prefers South-East. Box 185, SCIENCE. 4/6

**M.S. (Biology, 1971),** research, field, publications experience. Desires museum, research, field station or overseas position. Box 186, SCIENCE. X

**Neurochemist:** Addictive drug effects on CNS. Neurochemical basis of psychoses. Established research program, publications. Seeks research-oriented position. Box 187, SCIENCE. X

**Neurophysiologist,** Ph.D. 3 years' postdoctoral experience (neurochemistry, membrane biophysics). Publications in both vertebrate and invertebrate neurophysiology. Seeks research/teaching position. Box 188, SCIENCE. X

**Oncornavirologist,** Ph.D., 30. Wants to work with dynamic research team in field of in vitro and/or in vivo viral-chemical carcinogenesis. Significant publications and experience. Now available. Box 189, SCIENCE. X

**Organic Chemist** with 18 years' association with cancer research and extensive experience in hydrocarbon metabolism work seeks change to a cancer institute. Box 127, SCIENCE. X

**Ph.D. Physicist,** Fellow Phys. Soc., with fine research accomplishments (experimental). Teaching experience at university level. At present with major industrial laboratory. Seeks position with 4-year college where he can participate in, upgrade, or set up a good physics or science-mathematics program. Some management experience. Box 67, SCIENCE. 4/6

**Virologist,** Ph.D. Experienced, several publications, excellent references, desires teaching/research position. Box 190, SCIENCE. X

## POSITIONS OPEN

### BIOCHEMIST Ph.D.

Biochemist experienced in protein and glycoprotein fractionation. Candidates should have proficiency with various fractionation techniques, GLC, and be able to lead group efforts. Interested candidates send curriculum vitae, references, and publications to:

**Dr. B. Mackler**  
Lifton Bionetics, Inc.  
7300 Pearl Street  
Bethesda, Md. 20014

### BIOCHEMISTS

Several postdoctoral positions available immediately in areas of antibiotic biosynthesis, enzyme purification, and related areas. Send curriculum vitae to:

**Dr. George J. Schroepfer, Jr.,**  
Chairman, Department of Biochemistry  
Rice University  
Houston, Texas 77001

## POSITIONS OPEN

The University of Chicago, Committee on Human Development, announces an opening at the **Assistant Professor** level for a recent Ph.D. with strong research interests in child development (including adolescence) and/or the cross-cultural study of human development. Please send vitae to **Chairman, 5730 S. Woodlawn Avenue, Chicago, Ill. 60637.**

### Ph.D. IN ANIMAL ECOLOGY

Freshwater or terrestrial Animal Ecologist to be appointed, beginning September 1973, at the Assistant Professor level. Salary \$11,000 to \$12,000, depending upon experience. Responsibilities include participation in the undergraduate curriculum and development of a teaching-research specialization at the Ph.D. level. Minority applicants invited. Send curriculum vitae, the names of three referees, and a statement of teaching interests and research plans to: **Chairman, Department of Zoology, and Microbiology, Ohio University, Athens, Ohio 45701.** Ohio University is an equal opportunity, affirmative action employer.

**ASSISTANT OR ASSOCIATE PROFESSOR (Biochemistry)** depending upon qualifications, required for the fall 1973. Applicants should possess a Ph.D. degree and have research experience. Position will require teaching at both the undergraduate and graduate level, as well as the establishment of a research program. Departmental research interests are presently in periodontal and glandular tissues, secretory phenomenon, metabolism of oral microflora, enzyme regulation, bone biosynthesis and metabolism. Preference will be given to candidates with a dental degree in addition to a Ph.D.

For further information write: **Head, Department of Oral Biology, Faculty of Dentistry, University of Manitoba, Winnipeg, Manitoba, R3E 0W3, Canada.**

## Biochemist

We currently seek a PhD Biochemist with supervisory experience to augment our existing staff. Ideally, this scientist should have varied post-doctoral experience of 3-6 years, but primarily in the area of biochemical nutrition.

Roche offers a research environment that brings you in contact with stimulating investigators, encourages ideas, and provides excellent facilities and support services. Our Nutley headquarters are located in an attractive suburban area. Along with exceptional benefits, we will offer a salary commensurate with experience. Please send resume in confidence to: **Edward Meseck, Associate Personnel Manager-Research.**



**Hoffmann-La Roche Inc.**

340 Kingsland Street  
Nutley, New Jersey 07110  
An Equal Opportunity Employer F/M

**ASSISTANT PROFESSOR OF BIOLOGY.** Ph.D. preferred to teach courses in general biology, botany, cell biology, plant physiology or microbiology and to aid in the development of a new program in biology. Send résumé to **Earl C. Chapin, Dean of Arts and Sciences, Western New England College, Springfield, Massachusetts 01119.** An equal opportunity affirmative action employer.

**ASSISTANT PROFESSOR.** Teaching and research in quantitative forest resource management with emphasis on systems analysis. Ph.D. in resource management with strong preparation in systems analysis, operations research, systems engineering, applied statistics or computer analysis highly desirable. Individuals with training and experience in these fields with focus on resource management are also eligible to apply. September 1973. Equal opportunity employer. Applications from women and minority groups welcome. Send curriculum vitae and three references to **Dr. Stanley P. Gessel, Associate Dean, College of Forest Resources, University of Washington, Seattle, Wash. 98195.**

## POSITIONS OPEN

**BIBLIOGRAPHER** to select materials in science and engineering fields for university library collection. Requires MLS or equivalent and graduate degree in science or engineering; reading knowledge of German or Russian; several years academic library experience. Faculty status, liberal fringe benefits. Salary negotiable. Unique region, excellent climate, tri-cultural city of 300,000. Apply to **Ms. Dorothy Webb Trester, Chairperson, Search Committee, Zimmerman Library, University of New Mexico, Albuquerque, N.M. 87106.** (Position available 1 July 1973.)

**BOWLING GREEN STATE UNIVERSITY, ASSISTANT PROFESSOR.** Fall 1973. Ph.D. completed or nearly so. Salary: Competitive Affirmative Action Employer. **Biogeographer and medical geographer** desired. Will also consider recreation or environmental related specialties. Commitment to research and publication necessary. Apply: **Joseph C. Buford, Chairman, Department of Geography, Bowling Green State University, Bowling Green, Ohio 43403. TEL. (419) 372-2925.**

### BIOLOGIST

Applications from all areas of biology are invited to fill a position for the fall of 1973 at the assistant or associate professor level in a department of 18 members. Ph.D. preferred. Send curriculum vitae and pertinent information to **Chairman, Department of Biology, Edinboro State College, Edinboro, Pa. 16412.** Inquiries are especially invited from (but not limited to) women and minority groups.

### BIOLOGIST

Small college in Northeast seeks a full-time biologist with special interests in botany. Position involves undergraduate instruction in general biology, botany, and ecology. Send curriculum vitae, references, and a short description of teaching interests and concerns to **Leon Botstein, President, Franconia College, Franconia, New Hampshire 03580.**

Applications invited for three positions in **BIOLOGY**, at Assistant Professor level, effective 1 July 1973. Salary commensurate with experience. (i) Duties are to teach undergraduate and graduate courses, and to train graduate students in vertebrate physiology; candidates with a strong research background in vertebrate physiology (especially reproductive physiology) will be preferred; (ii) and (iii) are definite term appointments, each initially 2 years; duties are to teach undergraduate courses in (ii) animal physiology (especially of vertebrates); and (iii) plant morphology and morphogenesis (full responsibility for senior course; taking part in introductory course).

Applications, including complete curriculum vitae and names of three references, should be directed to: **Professor Philip S. Corbet, Chairman, Department of Biology, University of Waterloo, Waterloo, Ontario, Canada.**

### DEPARTMENT OF BIOLOGY HARVARD UNIVERSITY

Prior to 1 July 1974 this department expects to make an appointment at the assistant professor level. The field in which the appointment will be made is animal cell biology. The University is an equal opportunity employer; women and members of minority groups are specifically encouraged to apply. Please have three professional persons write us concerning you, and send your résumé, together with your most significant publications, to **Cell Biology Search Committee, Biological Laboratories, Harvard University, 16 Divinity Avenue, Cambridge, Massachusetts 02138.**

### BIOLOGY CHAIRMAN

For appointment 1 July 1973 or 15 August 1973 at large mid-Atlantic state university. Department has 19 faculty, 300 undergraduate majors, 20 students in new master's program. Need Ph.D. with some administrative experience, an interest in teaching, and a record of scholarly research. Send curriculum vitae and references to Box 192, SCIENCE. An equal opportunity employer.

**CHAIRMAN AND PROFESSOR OF PEDIATRICS,** Department of Pediatrics, University of Pennsylvania. In compliance with University policy, qualified candidates are invited to submit their credentials to: **Office of the Dean, University of Pennsylvania, School of Medicine, 36th and Hamilton Walk, Philadelphia, Pa. 19104. ATT: Chairman, Pediatric Search Committee.**

### ELECTRON MICROSCOPIST

Faculty position open in Department of Microbiology, Mount Sinai School of Medicine of the City University of New York, for independent investigator to direct research and teaching in relation to bacterial or viral ultrastructure. Academic rank and salary will depend on qualification. Only written communications including curriculum vitae and bibliography will be considered. Address to **Dr. E. D. Kilbourne, 10 East 102 Street, New York, New York 10029.**

An equal opportunity employer

## POSITIONS OPEN

**ELECTRON MICROSCOPE TECHNICIAN**  
B.S. preferred, experienced in preparing biological samples for ultrastructural study. Duties include fixing, embedding, and sectioning specimens. Start immediately. For further information please send résumé, including salary history, in confidence to

Mr. E. B. Wright, Business Manager  
W. Alton Jones Cell Science Center  
P.O. Box 631  
Lake Placid, New York 12946

### ENZYME TECHNOLOGY

Boston area corporation seeks a creative chemist/biochemist to take project responsibility in enzyme technology. The project concerns development of a family of clinical products for enzyme-based assays. Knowledge of clinical chemistry and a thorough background in enzyme chemistry is required. Responsibilities to include development of products and market applications technology.

We are an Equal Opportunity Employer  
Send reply to Box 165, SCIENCE.

### THE JOHNS HOPKINS UNIVERSITY

Invites applications for an **Experimental Biologist** with competence in the area of electron microscopy. Faculty position. Person to be responsible for developing and running new electron microscope facility. Limited teaching responsibilities. Excellent opportunity for collaborative research. Research interests in area of Reproductive Biology. Send résumé to Box 166, SCIENCE.

An Equal Opportunity Employer

**FACULTY OPENINGS:** Career-oriented, progressive, interdenominational, liberal arts college; student body less than 1000, coeducational, suburban setting. Seeking full-time faculty members in psychology and biology (microbiology, anatomy and physiology). Applicant should have Master's or Ph.D. and teaching experience. Positions available in September 1973; salary negotiable. Equal opportunity employer. Send credentials and résumé or curriculum vitae to **Sister Anne Webster, Academic Dean, Maryville College, 13550 Conway Road, St. Louis, Missouri 63141. Telephone 314/434-4100, extension 11.**

**FACULTY POSITION—PURDUE UNIVERSITY**  
Assistant professor, Ph.D., September 1973. Primarily research with some teaching responsibility in area of applicant's expertise. Applicants should (i) possess expertise in quantitative population dynamics and population modeling, (ii) be knowledgeable in the systems approach to population manipulation, and (iii) participate in a team effort to develop pest management schemes for agroecosystems. Applicants should submit curriculum vitae and letters of reference no later than 1 May 1973 to **Dr. Eldon E. Orman, Head, Department of Entomology, Purdue University, West Lafayette, Indiana 47907.**

Purdue University is an equal opportunity employer

**FAMILY PLANNING/POPULATION—**Interdisciplinary group with special interest in program development, evaluation, and cross-cultural studies. Openings for researchers in Economics, Health Education, Social Psychology, Administrative Science, and Communications. Associated with University of New York. Opportunities may exist for faculty appointment, teaching, foreign and/or domestic fieldwork or short-term consultations. Salary and staff level commensurate with academic background, experience. Please indicate language competence, availability for travel. An equal opportunity employer. Box 167, SCIENCE.

Candidates are sought for two faculty positions in the Graduate Department of the Scripps Institution of Oceanography of the University of California: (i) **Fisheries Scientist** with broad experience in fisheries investigations and population dynamics; and an interest in part-time scientific supervision of interdisciplinary and interlaboratory programs. (ii) **Coastal Oceanographer** specializing in fluid mechanics of wave motion and stratified flows. Ph.D. in Physics, Engineering or Oceanography and experience in field and laboratory measurements and data processing and parameterization into forms relevant to engineers and coastal planners. Appointment level dependent upon qualifications. Inquiries with curriculum vitae should be sent to **Dr. J. R. Curry, Chairman, Graduate Department, Scripps Institution of Oceanography, Box 109, La Jolla, California 92037.** The University is an equal opportunity employer with an affirmative action program.

### INSTRUCTOR

Position available in the Department of Pathology, University of Michigan Medical School, for 1 July 1973. Candidate must have a medical degree and be Board certified in Anatomic and Clinical Pathology. Instructor will support the teaching program and the Clinical Hematology Laboratory. Send résumé to Box 191, SCIENCE. A Non-discriminatory Affirmative Action Employer.

## POSITIONS OPEN

### SCHOOL OF BASIC MEDICAL SCIENCES UNIVERSITY OF ILLINOIS, URBANA

Three new positions in **GROSS ANATOMY, NEUROANATOMY,** and **MICROSCOPIC ANATOMY** are available either September 1973 or 1974 for one senior person and two junior persons. The curriculum is unique and innovative, requiring close cooperation between campus faculty and community physicians. Applicants must have demonstrated outstanding research potential with research interests related to medical sciences and must be competitive for research funding at the national level. Equal opportunities exist for qualified women and minority group members. Deadline date for applications is 3 weeks from publication of this notice. Send applications, including curriculum vitae, publication list, reprints, and at least three letters of recommendation to the **Chairman of the Search Committee, Dr. Ray L. Watterson, Department of Zoology, University of Illinois, Urbana, Illinois 61801,** who will be available for interviews at the meeting of the American Association of Anatomists 8 through 12 April.

### MEDICAL PHYSICIST

Applications are invited from a qualified person having experience in clinical physics including dosimetry and treatment planning for external beam therapy and brachytherapy. Individual should have experience with 4-MV linear accelerators and electron beam dosimetry.

Applications, with curriculum vitae and names of three references should be sent to:

James A. Purdy, Ph.D.  
Physical Section  
Division of Radiation Oncology  
Mallinckrodt Institute of Radiology  
Washington University School of Medicine  
510 S. Kingshighway  
St. Louis, Missouri 63110

### MICROBIOLOGIST/PHYSIOLOGICAL ECOLOGIST

Two positions, tentatively available September 1973. Between them, these two positions must cover microbiology, physiology, human anatomy and physiology and physiological ecology. Although teaching is emphasized, productive research participation is expected. Applicants are expected to teach in introductory courses as well as upper-level and graduate electives. Ph.D. required. Send résumés to **Dr. Willis R. Newman, Chairman, Personnel Committee, Department of Biological Sciences, State University College at Cortland, Cortland, New York 13045.**

An Equal Opportunity/Affirmative Action Employer

**ORNITHOLOGIST.** Position available starting July or later as Assistant Curator in Ornithology Department, American Museum of Natural History. Specialists in any aspect of evolutionary ornithology will be considered provided they have the ability and interest to supervise maintenance and curating of a large ornithological collection. Applicants should send curriculum vitae, names of suggested referees, copies of research publications, and a letter stating research interests and future research plans to: **Chairman, Department of Ornithology, American Museum of Natural History, Central Park West at 79 Street, New York, New York 10024.**

### PEST MANAGEMENT

Faculty position in teaching and research in pest management, to contribute to existing program in agriculture entomology. Candidates holding a Ph.D. degree, regardless of sex, ethnic origin, or experience, are invited to apply. Further information supplied on request to **Professor D. D. Jensen, Chairman, Division of Entomology and Parasitology, 201 Wellman Hall, University of California, Berkeley, California 94720.**

### PHARMACOLOGIST

Full-time position available for **Pharmacologist** (D.D.S. and Ph.D., or Ph.D.). Opportunity for educational innovation, research, and professional development in a major health center.

Box 168, SCIENCE

An Affirmative Action Employer

**PLANT SCIENTIST** with a strong background in Plant Physiology and interest in Biochemistry is needed to conduct research on the effects of organosilicon compounds on plants and to take charge of an experimental greenhouse. Send curriculum vitae to **W. G. Haigh, Plant Science Research, Bioscience Research Lab., Dow Corning Corp., Midland, Mich. 48640.**

**POSTDOCTORAL POSITION,** effective summer 1973, for recent Ph.D. in biochemistry to work on protein synthesis or enzymes involved in nucleic acid synthesis (interest in cell differentiation or neurochemistry desirable). Lecturing duties in introductory biochemistry. \$7,500 to \$10,000 per annum. Send full résumé to **Dr. I. R. Brown, Division of Life Sciences, University of Toronto, Scarborough College, West Hill, Ontario, Canada.**

## POSITIONS OPEN

Kitt Peak National Observatory seeks **PROGRAMMER** well experienced in process control or real-time applications to supervise and coordinate software development effort. Should be able to communicate well with both hardware design or maintenance engineers and the scientific staff. Experience with astronomy would be helpful but not essential.

Send résumés to **Personnel, Kitt Peak National Observatory, P.O. Box 4130, Tucson, Arizona 85717. An Equal Opportunity Employer**

**RADIATION THERAPIST—**Chairman of Department—faculty position at major medical center in city of 400,000; minimum of 5 years of experience; good experienced therapist, teacher, and researcher. Equal opportunity employer. Contact **William W. Krippachne, M.D., Chairman, Department of Surgery, University of Oregon Medical School, 3181 S.W. Sam Jackson Park Road, Portland, Oregon 97201.**

Recent Ph.D. sought to participate in ongoing research concerning **BEHAVIORAL AND ENDOCRINOLOGICAL EFFECTS OF PERINATAL UNDERNUTRITION IN THE RAT.**

Beginning 1 July 1973. Previous experience in undernutrition research desirable but not essential. Candidates should submit a curriculum vitae and references to: **Professor J. J. van der Werf ten Bosch, Department of Endocrinology, Growth and Reproduction, Medical Faculty, Erasmus University, P.O. Box 1738, Rotterdam, The Netherlands.**

### STATISTICAL LABORATORY OF THE STATE UNIVERSITY OF NEW YORK AT BUFFALO

Two positions are available for Ph.D. statisticians trained in theory and applications. Primary responsibilities within the Laboratory are for scientific collaboration on the planning, conduct, and analysis of clinical trials in cancer. Opportunities exist for teaching and research within the Laboratory and through joint appointments with University departments. Applicants should send full curriculum and employment vitae as well as names of three references to **James S. Williams, Statistical Laboratory, State University of New York at Buffalo, 4230 Ridge Lea Road, Amherst, New York 14226.**

Large suburban university in the Northeastern area seeks: Ph.D. **TERRESTRIAL ECOLOGIST,** preferably Community, Energy Flow, Systems approach. Assistant or Associate Professor level. Teaching (undergraduate and graduate) and research. Rural ecology study center (114 acres) associated with the University.

Box 169, SCIENCE

Two faculty positions: **Ultrastructural Cytologist and Molecular-Developmental Biologist.** Assistant Professor. Ph.D. with postdoctoral and/or teaching experience. Duties: Teach one elementary and one advanced course in area of specialty plus one nonmajor biology course per year (quarter system). Applicants are expected to maintain an active research program and supervise thesis research at M.S. level. Positions available September 1973. Send curriculum vitae and names and addresses of three referees to: **Dr. Gordon E. Stone, Department of Biological Sciences, University of Denver, Denver, Colorado 80210.** The University of Denver is an equal opportunity employer and is interested in attracting qualified applicants without regard to race, color, religion, sex or national origin.

## GRADUATE STUDY

### PREDOCTORAL ASSISTANTSHIPS IN PHYSIOLOGY

Excellent opportunities for graduate students leading to the Ph.D. Stipends and free tuition. Training and research in cardiovascular, cellular, endocrine, gastrointestinal, energy metabolism, neurophysiology, respiration, and transport physiology. Write for details to

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

## MARKET PLACE

**60% SAVINGS ON OUR Most Popular**  
**Neurophysiological Microelectrodes**  
**Sale Ends — May 1, 1973**

Write for Information:

Transidyne General Corporation  
462 South Wagner Road  
Ann Arbor, Michigan 48106



## Add a vertical illuminator for incident light fluorescence

You can extend the versatility of your AO MICROSTAR microscope with the simple addition of our new compact Vertical Illuminator for incident light fluorescence microscopy. It fits any Series 10 or 20 microscope; attaches easily and quickly; requires no alignment or adjustment.

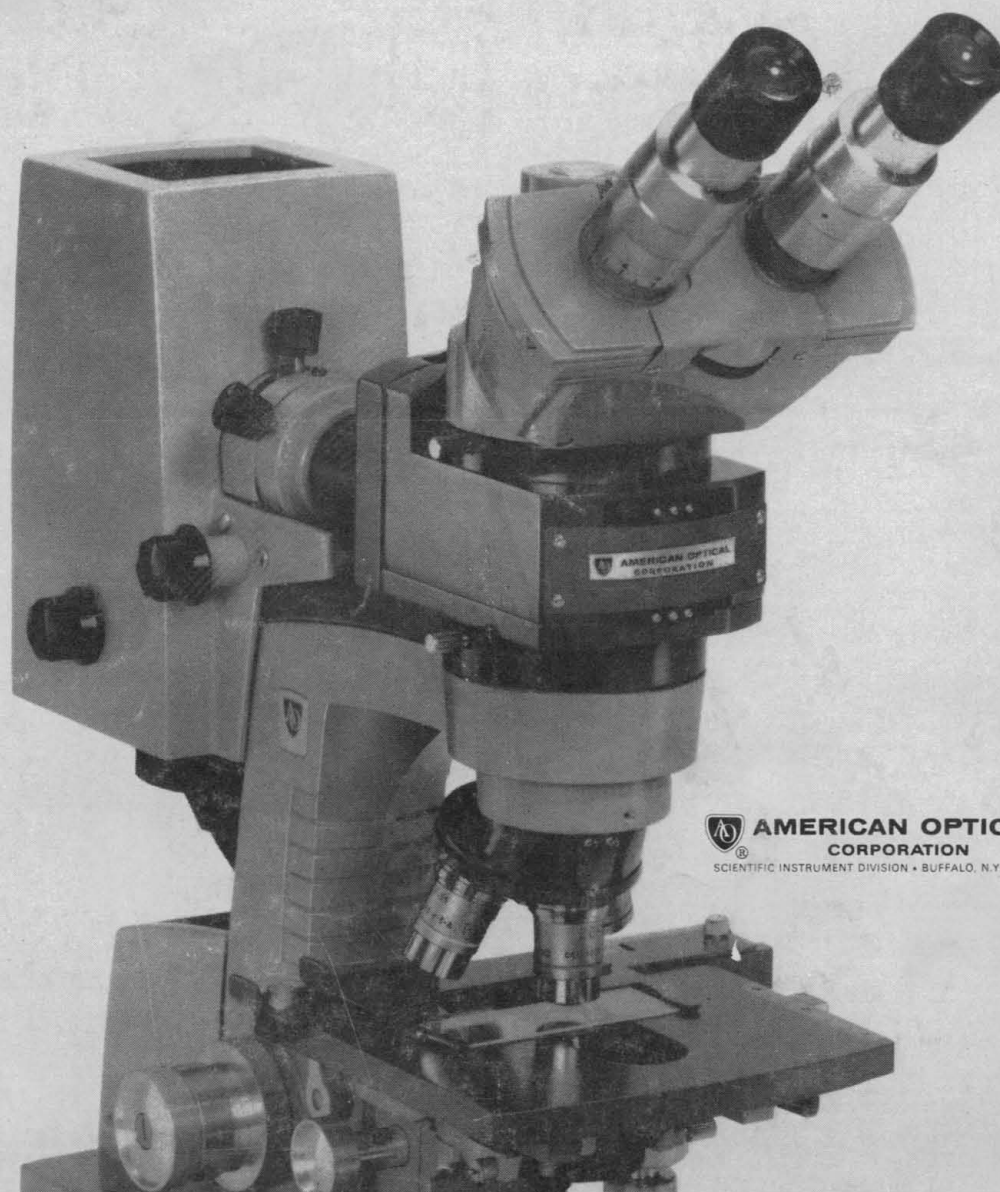
Fluorescence intensity is maximized by excitation with UV incident light regardless of specimen thickness or density. The microscope objective serves as both condenser and objective. Full field coverage is assured, even with the 10X objective.

Exciter, barrier and dichroic filters are turret mounted for dial-in convenience. More than that, they can be identified by touch when working in subdued light.

Convert to conventional transmitted light merely by rotating filter turrets to a neutral position.

See your AO dealer or representative or send for detailed brochure on the AO Vertical Illuminator. If you don't have a MICROSTAR microscope to use it with, we'll be glad to supply information on the Series 10 or 20 also.

**...makes your AO MICROSTAR®  
do the work of two microscopes.**



 **AMERICAN OPTICAL  
CORPORATION**  
SCIENTIFIC INSTRUMENT DIVISION • BUFFALO, N.Y. 14215