

Spon, London, 1977 (U.S. distributor, Halsted [Wiley], New York). xii, 248 pp., illus. \$19.95.

Language Acquisition and Language Breakdown. Parallels and Divergencies. Papers from a symposium, 1974. Alfonso Caramazza and Edgar B. Zurif, Eds. Johns Hopkins University Press, Baltimore, 1978. xii, 340 pp., illus. \$17.50.

Language and Cognition in Schizophrenia. Steven Schwartz, Ed. Erlbaum, Hillsdale, N.J., 1978 (distributor, Halsted [Wiley], New York). xiv, 288 pp. \$18.

Mental Health: Philosophical Perspectives. Proceedings of a symposium, Galveston, Tex., May 1976. H. Tristram Engelhardt, Jr., and Stuart F. Spicker, Eds. Reidel, Boston, 1978. xxii, 302 pp. \$19.95. Philosophy and Medicine, vol. 4.

Mexican Wilderness and Wildlife. Ben Tinker. Illustrations by Doris L. Tischler. University of Texas Press, Austin, 1978. xii, 132 pp. \$9.95.

The Minkowski Multidimensional Problem. Aleksey Vasil'yevich Pogorelov. Translated from the Russian edition by Vladimir Oliker. Winston, Washington, D.C., and Halsted (Wiley), New York, 1978. vi, 106 pp. \$13.95. Scripta Series in Mathematics.

Minority Education and Caste. The American System in Cross-Cultural Perspective. John U. Ogbu. Academic Press, New York, 1978. xxii, 410 pp. \$19.50. Carnegie Council on Children Publications.

Modern Phonology. Alan H. Sommerstein. University Park Press, Baltimore, 1977. x, 282 pp., illus. Paper, \$16.50.

Oceanography. Exploring the Planet Ocean. J. J. Bhatt. Van Nostrand, New York, 1978. xiv, 322 pp., illus. \$14.95.

Organic Reaction Mechanisms—1976. An Annual Survey Covering the Literature Dated December 1975 through November 1976. A. R. Butler and M. J. Perkins, Eds. Interscience (Wiley), New York, 1978. viii, 688 pp., illus. \$76.

The Packaging Media. A. Paine, Ed. Halsted (Wiley), New York, 1978. Variously paged. \$39.50.

Paddy Soils in Tropical Asia. Their Material Nature and Fertility. Keizaburo Kawaguchi and Kazutake Kyuma. University Press of Hawaii, Honolulu, 1978. xvi, 258 pp., illus. Cloth, \$15; paper, \$10. Monographs of the Center for Southeast Asian Studies, Kyoto University, English-language Series No. 10.

Plant Tissue and Cell Culture. H. E. Street, Ed. University of California Press, Berkeley, ed. 2, 1977. x, 614 pp., illus. \$43.75. Botanical Monographs, vol. 11.

Political Control of the Economy. Edward R. Tuft. Princeton University Press, Princeton, N.J., 1978. xii, 168 pp. \$10.

Polysaccharide Shapes. D. A. Rees. Chapman and Hall, London, and Halsted (Wiley), New York, 1977. 80 pp., illus. Paper, \$3.95. Outline Studies in Biology.

Powers of Nature. National Geographic Society, Washington, D.C., 1978. 200 pp., illus. \$5.75.

Proceedings of the Seventeenth International Machine Tool Design and Research Conference. Birmingham, England. Sept. 1976. S. A. Tobias, Ed. Macmillan, London, 1978 (U.S. distributor, Halsted [Wiley], New York). xii, 672 pp., illus. \$77.50.

Research on Smoking Behavior. Papers from a conference, Los Angeles, June 1977. Murray E. Jarvik, Joseph W. Cullen, Ellen R. Gritz, Thomas M. Vogt, and Louis Jolyon West, Eds. National Institute on Drug Abuse,

Rockville, Md., 1977 (available from the Superintendent of Documents, Washington, D.C.). xii, 384 pp., illus. Paper, \$4.50. NIDA Research Monograph 17.

Research Techniques in Nondestructive Testing. Vol. 3. R. S. Sharpe, Ed. Academic Press, New York, 1977. x, 500 pp., illus. \$39.

Research Universities and the National Interest. A Report from Fifteen University Presidents. Ford Foundation, New York, 1977. viii, 140 pp. Paper, \$4.

The Restless Universe. An Introduction to Astronomy. Harry L. Shipman. Houghton Mifflin, Boston, 1978. xvi, 464 pp., illus. + plates. \$15.95.

River Channel Changes. Papers from a symposium, Coventry, England, Jan. 1976. K. J. Gregory, Ed. Wiley-Interscience, New York, 1978. xvi, 450 pp., illus. \$39.95. A Publication of the British Geomorphological Research Group.

The SI for the Health Professions. World Health Organization, Geneva, 1977 (U.S. distributor, WHO Publications Centre USA, Albany, N.Y.). 76 pp. Paper, \$2.25.

The Significance of Nonlinearity in the Natural Sciences. Proceedings of a meeting, Coral Gables, Fla., Jan. 1977. Arnold Perlmutter and Linda F. Scott, Eds. Plenum, New York, 1977. viii, 424 pp., illus. \$42.50. Studies in the Natural Sciences, vol. 13.

SI Units in Medicine. An Introduction to the International System of Units with Conversion Tables and Normal Ranges. Herbert Lippert and H. Peter Lehmann. Translated from the German edition (Munich, 1976) by H. L. Lehmann. Urban & Schwarzenberg, Baltimore, 1978. viii, 212 pp. Spiral bound, \$14.50.

Soil Organic Matter. M. Schnitzer and S. U. Khan, Eds. Elsevier, New York, 1978. xiv, 320 pp., illus. \$65.25. Developments in Soil Science 8.

Solid Phase Methods in Protein Sequence Analysis. Proceedings of a conference, Montpellier, France, Sept. 1977. A. Previero and M.-A. Coletti-Previero, Eds. North-Holland, Amsterdam, 1977 (U.S. distributor, Elsevier, New York). xviii, 298 pp., illus. \$37.95. INSERM Symposium No. 5.

Solid State Physics. Advances in Research and Applications. Vol. 32. Henry Ehrenreich, Frederick Seitz, and David Turnbull, Eds. Academic Press, New York, 1977. xiv, 328 pp., illus. \$26.

Stabilization of Superconducting Magnetic Systems. V. A. Al'tov, V. B. Zendevidh, M. G. Kremlev, and V. V. Sychev. V. V. Sychev, Ed. Translated from the Russian edition (Moscow, 1975) by G. D. Archard. K. D. Timmerhaus, Transl. Ed. Plenum, New York, 1977. xiv, 338 pp., illus. \$39.50. The International Cryogenics Monograph Series.

The State of Academic Science. Change Magazine Press, New York, 1977–1978. Two volumes. Vol. 1, The Universities in the Nation's Research Effort. Bruce L. R. Smith and Joseph J. Karlesky. xiv, 250 pp., illus. \$5.95. Vol. 2, Background Papers. Walter S. Baer, David W. Breneman, Sanford A. Lakoff, David Wolfe, and Carl M. York. Bruce L. R. Smith and Joseph J. Karlesky, Eds. 192 pp., illus. \$5.95.

Thermodynamics. A Rigorous Postulatory Approach. S. H. Chue. Wiley, New York, 1978. xii, 274 pp., illus. \$27.50.

The Unquiet Landscape. Denys Brunsden, John C. Doornkamp, and D. Ingle-Smith, Eds. Halsted (Wiley), New York, 1978. 168 pp., illus. Paper, \$12.95. Reprinted from *The Geographical Magazine*.

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POSITIONS WANTED

Biochemist. Ph.D. 1974. Postdoctoral experience. Expertise in protein purification, synthesis of affinity resins, immunological techniques, peptide isolation, amino acid analysis and chemical modifications, enzymology, and metabolic studies in human lymphocytes and PMN's. Desires research or teaching position. Box 301, SCIENCE. X

Ph.D. **Free-lance Editor**, chemistry and other sciences. Extensive experience, major contributions to the research literature. Box 303, SCIENCE. 9/22; 10/6

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Instrument Designer/Maker, with 10 years of experience in collaboration with biologists and physicists in the custom designing and making of scientific apparatus. Seeking career growth position in an innovative environment. Box 302, SCIENCE. 9/22, 29

Pharmacologist/Physiologist, Ph.D., M.B.A. Broad interests. General management business degree. Experience in teaching, electronic design and troubleshooting, computer programming, radiation biology, myoneural research, cardiovascular research. Seeks research/administrative/teaching or combination position. Location unimportant. Box 304, SCIENCE. 9/22, 29

Scientist/Lawyer. Ph.D. (biochemistry, 1974); J.D. (June 1979). Seeks any type of legal position where scientific expertise is useful. Postdoctoral experience in cancer research. Publications (scientific and legal). Box 300, SCIENCE. 9/22, 29

POSITIONS OPEN

CHAIRMAN, Department of Natural Sciences, Florida State Museum. To administer research-oriented department of 12 curators in natural history. Research in any related field. Twelve-month position begins 1 July 1979. Application deadline: 1 November 1978. Name three references and send curriculum vitae to: Search Committee, Department of Natural Sciences, Florida State Museum, University of Florida, Gainesville, Fla. 32611. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ANATOMIST. Ph.D. Responsible for teaching gross anatomy and human dissection.

Accredited chiropractic college. Possible immediate appointment. Salary negotiable.

Send letter of application, three recent letters of reference, and curriculum vitae information to: **Dr. Gerald R. Konsler, Assistant Executive Secretary, Council on Chiropractic Education, 3209 Ingersoll Avenue, Des Moines, Iowa 50312.**

Applications are invited for a faculty position in **ANATOMY** that is available September 1978. Rank of assistant professor and salary depend on experience and qualifications. The successful candidate will be expected to continue to develop productive research projects; teach in gross human anatomy; and to actively participate in out graduate studies program. Send curriculum vitae and names of three referees to: **Anthony J. Schmidt, Ph.D., Chairman, Department of Anatomy, Rush College of Health Sciences, Rush Medical College, 600 South Paulina Street, Chicago, Illinois 60612. Rush University is an Equal Opportunity/Affirmative Action Employer.**

ANATOMIST/PHYSIOLOGIST. Position available as early as 1 February 1979 for an **assistant professor** qualified to teach human gross anatomy. Postdoctoral experience is desirable. Research area is open in the fields of anatomy and physiology. Active research and teaching in the appointee's specialty are required. Send curriculum vitae, three letters of recommendation, and reprints to: **Steven D. Skopik, Ph.D., Physiology Section, School of Life and Health Sciences, University of Delaware, Newark, Del. 19711.** Closing date: 1 November 1978. *The University of Delaware is an Equal Opportunity/Affirmative Action Employer.*

APPLICATIONS CHEMIST

Perkin-Elmer Corporation is seeking a biochemist with a Ph.D. or M.S. plus 5 years of relative experience. This position involves an evaluation of new spectrophotometers and accessories, applications development, and training customers and field personnel. For immediate attention, send résumé in confidence to:

Dan Keogh
Coleman Instrument Division
PERKIN-ELMER CORPORATION
2000 York Road
Oak Brook, Illinois 60521
Telephone: 312-887-0770

An Equal Opportunity Employer, M/F

BOSTON UNIVERSITY: TWO TENURE-TRACK ASSISTANT PROFESSORSHIPS beginning September 1979. (i) **Electrochemist:** potential for outstanding research in electrochemistry and excellence in teaching analytical chemistry. (ii) **Organic chemist:** potential for outstanding research and excellence in teaching organic chemistry. Three letters of recommendation, résumé, detailed statement of research plans.

TWO STAFF POSITIONS. (i) **Assistant chairperson** beginning July 1979: fiscal, facilities, and support services management; chief of staff; safety officer; ombudsperson; Ph.D. in chemistry or equivalent required, administrative and teaching experience desirable. (ii) **Manager**, major instrumentation, beginning September 1979: supervisory responsibility for NMR, GC-MS, IR, UV, other shared instrumentation; instruction of users; overseeing maintenance; preparing departmental proposals; Ph.D. in chemistry or equivalent required. Three letters of recommendation, résumé.

Respond to: **Dr. Norman N. Lichtin, Chairman, Department of Chemistry, Boston University, Boston, Mass. 02215. Equal Opportunity/Affirmative Action Employer.**

IMMUNOLOGIST—Position open for a Ph.D. or M.D. at the assistant professor level. Joint appointment available in Department of Medicine for M.D. Candidate should be able to conduct active research program contributing to departmental interests in cellular and molecular biology. Participation in graduate and medical teaching required. Send correspondence to: **Dr. Morton M. Weber, Department of Microbiology, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, Missouri 63104. Equal Opportunity/Affirmative Action Employer, M/F/Handicapped.**

POSITIONS OPEN

UNIVERSITY OF ILLINOIS, CHICAGO

THE DEPARTMENT OF BIOLOGICAL SCIENCES invites applications for four positions at the rank of **assistant professor** for September 1979. Preference will be given to candidates with postdoctoral experience who have demonstrated outstanding potential for independent research in: (i) **immunobiology**, (ii) **microbial physiology**, (iii) **molecular evolution**, and (iv) **plant ecology**. The applicants selected will be expected to teach undergraduate and graduate courses in their general fields and to direct M.S. and Ph.D. candidates.

Applications, including curriculum vitae, reprints, a statement of research plans, and three letters of reference, should be sent to: **Dr. S. K. Shapiro, Head, Department of Biological Sciences, University of Illinois, Box 4348, Chicago, Illinois 60680.** Closing date: 20 October 1978. *The University of Illinois is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF ORGANIC CHEMISTRY—Tenure-track position, beginning September 1979; postdoctoral experience desirable. Position includes teaching at undergraduate and graduate levels and development of a strong research program. Applicant's research interests, as they may complement those of other members of the department, will be considered. Send résumé, transcripts, description of research interests, and three letters of recommendation to: **Dr. Grant Gill Smith, Chairman, Search Committee, Department of Chemistry and Biochemistry, UMC 03, Utah State University, Logan, Utah 84322.** Closing date for application is 1 November 1978. *Utah State University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF PHYSIOLOGICAL CHEMISTRY University of Wisconsin-Madison

Two faculty positions at the level of assistant professor will be available on or after 1 July 1979 and 1 January 1980 for persons with strong biochemical research and teaching interests. Members of this department have active research programs and teach graduate, medical, and other health science students. Applicants should submit curriculum vitae citing teaching and funding experience, a complete bibliography, letters of references from three persons knowledgeable of the candidate's research or teaching abilities, and a brief statement of future research interests. These materials should be received by **Dr. James E. Dahlberg, Chairman of Research Committee, 589 Medical Sciences Building, University of Wisconsin Medical Center, Madison, Wis. 53706** not later than 1 November 1978. *The University of Wisconsin School of Medicine is an Equal Opportunity Employer.*

BIOCHEMIST—MOLECULAR BIOLOGIST

Anticipated faculty position at the University of California, Santa Barbara, Department of Biological Sciences, Section of Biochemistry—Molecular Biology. Effective 1 July 1979. Applications are sought from biochemists whose research interests lie in the use of a combined genetic and biochemical approach for the study of eukaryotic systems. The applicant will be expected to contribute to our general courses in biochemistry and genetics. Rank and salary depend on qualifications and experience.

Applications with curriculum vitae, list of publications, names of references, and summary of research interests should be sent to: **Chairman, Department of Biological Sciences, University of California, Santa Barbara, California 93106.** Letters of reference should not be sent until requested. Applications must be postmarked no later than 31 December 1978. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

BOTANIST, assistant professor, to complement teaching and research of faculty in organismic biology and ecology. Various areas of organismic biology of terrestrial plants suitable, for example, autecology, field botany, population biology. Preference will be given to candidates who work with field-oriented problems. Ph.D. required; postdoctoral experience preferred. Available 1 September 1979. Send application by 1 December 1978, including curriculum vitae, reprints and manuscripts submitted for publication, and names of those who have been requested to write letters of recommendation, to: **Dr. G. Fred Somers, School of Life and Health Sciences, University of Delaware, Newark, Delaware 19711.**

The University of Delaware is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOCHEMISTRY. Persons with an interest in developing a research program on some aspect of plant life relevant to crop productivity, a Ph.D. degree, and demonstrated ability to conduct biochemical or molecular biological research are invited to apply. Send curriculum vitae, statement of future research interest, and names of three references by 15 January to: **Lois K. Miller, Department of Bacteriology and Biochemistry, University of Idaho, Moscow, Idaho 83843. An Equal Opportunity/Affirmative Action Employer.**

BIOMEDICAL ENGINEER, M.S. degree preferred. Permanent position requires an experienced engineer with a background in experimental instrumentation and electronic design. A degree or strong history in physiology is desirable. An established research team is entering into the investigation of heart damage mechanisms due to the stress of high sustained acceleration. Send complete résumé to: **Technology Incorporated, Life Sciences Division, 511 West Rhapsody, San Antonio, Texas 78216. Equal Opportunity Employer.**

CELL AND MOLECULAR BIOLOGISTS

Two tenure-track positions will be available in fall 1979 in the Division of Cell and Molecular Biology, Department of Biological Sciences, at the assistant professor level.

For one of the positions, we are seeking someone in the areas of DNA recombination or protein synthesis, and for the other position, someone in the area of cellular regulation or developmental biology.

Preference for one of the positions will be given to a person working with plants.

Applicants must have 2 to 3 years of postdoctoral experience in their area of expertise and the potential for setting up an independent research program.

To apply, submit curriculum vitae, including bibliography, statement of research interests, teaching background, and names of four referees from whom references may be obtained, to: **Dr. Harold L. Segal, Chairman, Search Committee, 109 Cooke Hall, State University of New York at Buffalo, Buffalo, New York 14260.**

Application deadline: 30 November 1978.

State University of New York is an Equal Opportunity/Affirmative Action Employer.

ECOLOGIST

A tenure-track position will be available in fall 1979 in the Division of Environmental and Organismal Biology, Department of Biological Sciences, at the assistant professor level.

We are seeking someone with a Ph.D. degree or equivalent in ecology, including physiological ecology.

Applicants must have 2 to 3 years of postdoctoral experience and the potential for setting up an independent research program.

To apply, submit curriculum vitae, including bibliography, statement of research interests, teaching background, and names of four referees from whom references may be obtained, to: **Dr. Kenton Stewart, Chairman, Search Committee, 109 Cooke Hall, State University of New York at Buffalo, Buffalo, New York 14260.**

Application deadline: 15 November 1978.

State University of New York is an Equal Opportunity/Affirmative Action Employer.

ENDOCRINOLOGIST

A tenured position will be available in fall 1979 in the Division of Environmental and Organismal Biology, Department of Biological Sciences, at the associate or full professor level.

We are seeking someone with an established reputation, in the field of general endocrinology, neuroendocrinology, reproductive endocrinology, or comparative endocrinology.

This position requires extensive teaching and research experience. Candidate is expected to have an ongoing, well-defined, successful research program.

To apply, submit curriculum vitae, including bibliography, statement of research plans, teaching background, and names of four referees from whom references may be obtained, to: **Dr. O. P. Bahl, Chairman, Department of Biological Sciences, 109 Cooke Hall, State University of New York at Buffalo, Buffalo, New York 14260.**

Application deadline: 15 November 1978.

State University of New York is an Equal Opportunity/Affirmative Action Employer.

22 SEPTEMBER 1978

POSITIONS OPEN

ASSISTANT PROFESSOR, IN-RESIDENCE, CLINICAL CHEMISTRY

University of California, Irvine, Department of Pathology, is recruiting for faculty position at assistant professor level. Required: M.D., clinical Board-eligible/qualified, service experience in clinical chemistry, demonstrated interest in independent research. Duties: teach medical students and house staff, limited administrative responsibility in area of clinical chemistry. All qualified candidates welcome; minorities and women encouraged to apply. Send curriculum vitae and references to: **H. Simpkins, M.D., Ph.D., Department of Pathology, University of California, Irvine, California 92717 by 23 October 1978.**

ASSISTANT RESEARCH BIOCHEMIST. Ph.D. biochemist for research on purification and characterization of tracheobronchial mucus glycoproteins from experimental animals exposed to various air pollutants. Prior experience with protein purification necessary; prior experience in mucus biochemistry would be desirable. Will become a member of large multidisciplinary team, but will have opportunity for development of individual research related to the respiratory system. Adjunct appointment in an academic department possible and would provide a well-qualified applicant with opportunities for teaching professional and graduate students. Send complete curriculum vitae, including bibliography and names of at least three references, to: **Director California Primate Research Center, University of California, Davis, California 95616.** The position will remain open until filled but early application is encouraged. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT RESEARCH PROFESSOR—A non-tenure-track position in geological sciences at the University of Washington for a person qualified to run an active research program in ¹⁴C dating. Experience with isotope enrichment techniques essential, with knowledge of Van de Graaff accelerators desirable. Salary negotiable. Curriculum vitae, including two references, to be sent by 20 October to: **M. Stuiver, Search Committee, Department of Geological Sciences, AK-20, University of Washington, Seattle, Wash. 98195.**

The University of Washington is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE OR ASSISTANT PROFESSOR IN BIOCHEMISTRY

The Department of Physiological Chemistry at the Johns Hopkins University School of Medicine seeks two faculty members with a commitment to excellence in research and teaching in biochemistry and molecular biology. Applicants should submit curriculum vitae, list of publications including representative reprints, three letters of recommendation, and a summary of research plans to: **Dr. M. Daniel Lane, Department of Physiological Chemistry, The Johns Hopkins University School of Medicine, Baltimore, Maryland 21205.** Deadline for applications is 15 November 1978. *Equal Opportunity Employer.*

HARVARD SUMMER SCHOOL POSITIONS IN BIOLOGY

Applications are invited for summer school teaching positions in biology. Introductory courses are emphasized with possibility of intermediate offerings. Possible courses include: general biology, zoology, botany, cell biology, physiology, and genetics. Compensation at Harvard median. Applications, including curriculum vitae, should be sent to:

**Dr. Marshall R. Pihl
Associate Director
Harvard Summer School
20 Garden Street
Cambridge, Mass. 02138**

DEADLINE: 31 October 1978.

Harvard University is an Equal Opportunity/Affirmative Action Employer.

LIPOPROTEIN BIOCHEMIST

Biochemist Ph.D. with experience in lipoprotein biochemistry and metabolism sought for senior position in NIH-sponsored research program. Experience in apolipoprotein purification and quantitation and design of metabolic studies highly desirable. Please respond by 1 November 1978. Send curriculum vitae, bibliography, and names of three references to: **Seymour M. Sabesin, M.D., Department of Medicine, University of Tennessee Center for the Health Sciences, Room 335M, 951 Court Avenue, Memphis, Tennessee 38163.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

B.S. DEGREE or equivalent in professional experience. Research in the chemistry and immunology of complement. Techniques will be aimed at separation, identification, and measurement of components and the breakdown of products of complements. Must be capable of independent work in the above under nominal direction of director. Also responsible for training of all additional technicians. Additional duties include molecular sieving and ion exchange chromatography and special procedures such as immunoelectrophoresis, Ouchterlony, Laurell, and disc electrophoresis. Salary: \$12,027 per year. Contact: **Mike Harding, Utah State Job Service, 1234 South Main Street, Salt Lake City, Utah 84112; telephone: 801-533-2416. Equal Opportunity Employer.**

University of California, Los Angeles (UCLA), School of Medicine, seeks appropriate candidates for the **DELLA MARTIN CHAIR IN PSYCHIATRY**, newly endowed professorship for distinguished academic psychiatrist (English-speaking, eligible California licensure) committed to research especially on major mental illnesses of adolescents and young adults. *Equal Opportunity/Affirmative Action Employer.* Send curriculum vitae, letter discussing career goals, and five references to:

**Arnold B. Scheibel, M.D., Chairman
Della Martin Search Committee
760 Westwood Plaza
Los Angeles, California 90024**

ACADEMIC POSITION OPEN CHEMISTRY DEPARTMENT CHAIRPERSON

Nominations and applications are invited for the position of Chemistry Department chairperson at Wichita State University starting August 1979. The department of 14 faculty members offers ACS certified undergraduate degrees and master's degrees in all five major areas of chemistry. The successful candidate for this position must have an excellent record in teaching and chemical research, and have a clear potential for leadership. Administrative experience is desirable. The chairperson will be expected to teach at the undergraduate and graduate levels, maintain an active research program, be effective in obtaining grant support, and guide the department into continued new program development. Submit qualifications, including curriculum vitae, and have at least three letters of recommendation sent by 20 October 1978 to: **Dr. Melvin Zandler, Chairperson, Search Committee, Department of Chemistry, Wichita State University, Wichita, Kansas 67208.**

Wichita State University is an Affirmative Action Employer.

CHAIRPERSON DEPARTMENT OF MEDICAL GENETICS

Applications are invited from qualified M.D.'s and Ph.D.'s with demonstrated competence in human and medical genetics for the position of chairperson, Department of Medical Genetics, Indiana University School of Medicine. In addition to competence in departmental administrative matters, candidates should have experience and ability in the initiation and development of research projects, education of medical and graduate students, and provision of clinical consultations. Interested parties should send their curriculum vitae to: **Dr. Morris Green, Chairman, Search and Screen Committee, Indiana University School of Medicine, 1100 West Michigan Street, Indianapolis, Indiana 46202.**

Indiana University is an Affirmative Action/Equal Opportunity Employer.

ENDOCRINOLOGIST

Senior level appointments are being considered at the Worcester Foundation for Experimental Biology. Candidates with an established reputation and the proven ability to obtain grant support in the field of endocrinology are encouraged to apply. Special consideration will be given to applicants in the following areas:

- 1) Hormone receptors and mode of hormone action,
- 2) Neuroendocrinology, and
- 3) Endocrinology of pregnancy and parturition.

Send two copies of curriculum vitae, together with the names of three referees, to: **Endocrine-Reproductive Biology Search Committee, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Massachusetts 01545.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

COORDINATOR FOR PESTICIDE IMPACT ASSESSMENT (California and Western region). Coordinate development, assembling, and transfer of information about pesticides designated by EPA as subjected to "rebuttal presumption against registration" (RPAR). Administer regional program; identify and determine research capabilities and placement of grants to develop needed data. M.S. or Ph.D. in agriculture or biological sciences with specialty in entomology, plant pathology, and weed control; experience desired. Broad knowledge of legislation, regulations, and pesticide registration procedures required. Contact: **Personnel Administrator, Agriculture and University Services, 331 University Hall, University of California, Berkeley, Calif. 94720.** Closes: 27 October 1978. Davis location. Refer to #7829.

An Affirmative Action Employer

DEAN, College of Agricultural Sciences, Texas Tech University, Lubbock. Candidates must have an earned doctorate in a field of agriculture, teaching, and research achievement, prior leadership experience at the higher education level, practical knowledge of commercial agriculture, and a record of expertise in budgetary development, personnel administration, and program and research funding and evaluation. The college enrolls 1,500 students in nine departments with 75 faculty, and the university enrolls approximately 22,000 students. Position now open. Submit applications with three letters of recommendation by 15 November 1978, to: **Dr. C. B. Ramsey, Animal Science Department, Texas Tech University, Lubbock, Texas 79409.** *Equal Opportunity/Affirmative Action Employer.*

ENGINEERING AND PUBLIC POLICY FACULTY POSITIONS

The University of Oklahoma plans to appoint one or more tenure-track faculty members to joint positions in the appropriate engineering departments and the university's multidisciplinary Science and Public Policy Program. Candidates should hold a Ph.D. or equivalent background in chemical or mechanical engineering or other engineering field that will contribute to ongoing studies of energy resource development and utilization. In addition, candidates should have an ability and commitment to working as part of an integrated research team comprising engineers, natural scientists, and social scientists. Preference will be given to persons with demonstrated aptitude in multidisciplinary programs or relevant experience in industry, government, or comparable academic programs.

The duties for these faculty positions will involve a major research commitment to ongoing science and public policy studies, teaching one graduate or undergraduate course a semester, and faculty contributions to the total program of the appropriate College of Engineering unit.

Rank and salary will be commensurate with qualifications. One position is open immediately and preference will be given to candidates available by January 1979. Applications must be received by 16 October 1978, to ensure full consideration in the initial screening. Recruitment will continue until positions funded in upcoming budget are filled.

Please send résumés, copies of appropriate papers and academic records, and a list of three references (or letters) to: **Michael Devine, Professor of Industrial Engineering and Director, Science and Public Policy Program, 601 Elm, Room 432, University of Oklahoma, Norman, Okla. 73019.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION—Ph.D. with postgraduate experience for tenure-track assistant professor position is sought by the Division of Pharmacognosy and Natural Products Chemistry to teach biochemistry and chemistry of natural drug products and to direct research in the general area of biochemistry of hormones, vitamins, nucleic acid, or proteins. Send résumé and three letters of recommendation to: **Dr. R. W. Doskotch, College of Pharmacy, Ohio State University, Columbus, Ohio 43210.** *Affirmative Action/Equal Opportunity Employer.*

OHIO—INFECTIOUS DISEASES. Full-time academic position available for pediatrician trained in infectious diseases at Children's Hospital, Department of Pediatrics, Ohio State University College of Medicine. Applicants must be Board-certified or eligible in pediatrics and have at least 2 years of fellowship training. Contact: **Milo Hilty, M.D., Children's Hospital, Department of Pediatrics, 700 Children's Drive, Columbus, Ohio 43205.**

POSITIONS OPEN

ENGINEERING SCIENCES

The Department of Engineering Sciences of the College of Engineering of the University of Florida has two tenure-acquiring positions for which appointments will be made during the academic year 1978-1979. The dates of appointment can be arranged to be effective anytime between 22 January 1979 and 8 September 1979. The appointments will be partially funded from the Center of Excellence Program of the State University System of Florida. The applicants should demonstrate interest in teaching elementary courses in engineering mechanics and in initiating and maintaining a significant research program in the areas of mechanics of composite materials and/or fracture mechanics leading to the development of new materials or of the analysis and/or design of intelligent machines. A doctoral degree or its equivalent is required. Salary and rank will be commensurate with experience although preferential consideration will be given to applicants for the lower academic ranks. Please send résumés with the names of three professional references to: **Search Committees, Department of Engineering Sciences, University of Florida, Gainesville, Florida 32611** before the deadline date, 15 January 1979. *The University of Florida is an Equal Opportunity/Affirmative Action Employer.*

ENVIRONMENTAL STUDIES: Assistant Director of Institute of Environmental Studies

Both teaching and administrative responsibilities in an interdisciplinary program offering undergraduate and master's level work. Teaching to include introductory and advanced-level courses. Administrative responsibilities to include curriculum planning, student counseling, job placement, and budgetary activity. Applicants from any discipline who have experience and/or training in environmental studies will be considered. Contact: **Professor Dan McGee, Box 150, Baylor University, Waco, Texas 76703; telephone: 817-755-3411.** *Affirmative Action/Equal Opportunity Employer.* Position open: January 1979 or September 1979.

FACULTY POSITIONS. Williams College Biology Department has three anticipated openings for fall 1979:

- 1) A tenure-track position for a **GENETICIST** with research interests in cell biology to teach a one-semester course in genetics and another course in an area of specialty, preferably immunology or virology.
- 2) A tenure-track position for a **COMPARATIVE ANIMAL PHYSIOLOGIST** broadly trained in physiology to teach a one-semester course in comparative animal physiology and another course in endocrinology.
- 3) A 2-year visiting appointment for a **PHYSIOLOGICAL ECOLOGIST** qualified to teach a one-semester course in introductory ecology and another course in either evolution or marine biology.

In addition to duties listed above, all faculty in the department are required to direct a tutorial for one semester in a senior-level advance topics course and are expected to carry on an active research program. Ph.D. degree is required. Completed application containing résumé, description of research interests, and three letters of recommendation must be received by 15 November. Send to: **Dr. W. DeWitt, Chairman, Biology Department, Williams College, Williamstown, Mass. 01267.** *Equal Opportunity/Affirmative Action Employer.*

NEUROSCIENTIST. Staff position available after January 1979 with Neurosciences Research Program for full-time work on conceptual problems at various levels of brain research: molecular, cellular, neural, and behavioral. Must be capable of evaluating scientific literature, formulating ideas lucidly, and developing creative interpretations of neurobiological issues, working in collaboration with other scientists selected for expertise in given research areas or topics.

Four or more years postdoctoral; salary commensurate with training and experience. Appointments renewable annually. Candidates may arrange for interviews at the St. Louis meetings of the Society for Neuroscience.

For information contact:

**Professor Frederic G. Worden
Neurosciences Research Program
165 Allandale Street
Boston, Mass. 02130
Telephone: 617-522-6700**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

FACULTY POSITIONS IN GENETICS

The Department of Genetics, Washington University School of Medicine, invites applications for three positions, at the assistant/associate/full professor level, in developmental genetics, immunogenetics, and somatic cell genetics, beginning fall 1979. Candidates must have a strong background of training and experience in genetics and an active research program in genetics. Teaching responsibilities may be at the medical, graduate, and/or undergraduate level. Send curriculum vitae, publication list, brief résumé of research program, and names of three references to: **Dr. Donald C. Shreffler, Department of Genetics, Washington University School of Medicine, St. Louis, Mo. 63110.** Deadline for applications is 20 October 1978.

An Equal Opportunity/Affirmative Action Employer

GEORGIA TECH ATMOSPHERIC SCIENCE PROGRAM

FACULTY AND RESEARCH POSITIONS are open in the new atmospheric science program being developed in the School of Geophysical Sciences, Georgia Tech. Talented individuals who can be dynamic in teaching and/or research are being sought with demonstrated experience and background in one or more of the following areas: atmospheric chemistry, physical meteorology, and dynamic meteorology. Send résumé to: **C. S. Kiang, School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, Georgia 30332.** *Georgia Tech is an Equal Opportunity/Affirmative Action Employer.*

FISHERIES BIOLOGIST—AQUACULTURE, Michigan State University. Assistant professor, 12-month, tenure-track. Major responsibilities: teaching (40 percent)—a senior-level course in aquaculture and an introductory course in fisheries/wildlife management. Research (40 percent)—develop research program and supervise graduate students. Extension (20 percent)—develop program primarily in aquaculture. Qualifications: Ph.D., fisheries biology and aquaculture; additional expertise in fish toxicology preferred. Submit letter of application, résumé and supporting materials, and three letters of reference by 31 October 1978 to: **Dr. Daniel R. Talle, Search Committee Chairman, Department of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan 48824.**

Equal Opportunity/Affirmative Action Employer

IMMUNOLOGIST. Assistant professor. Ph.D. or M.D. Postdoctoral experience desirable. Starting date negotiable but not later than 1 October 1979. Responsibilities include the development of an independent research program in immunology, supervision of graduate student (M.S. and Ph.D.) research projects, and participation in undergraduate and graduate teaching in the Department of Microbiology. Opportunity exists to teach in the WAMI Medical Program. Academic year appointment. Salary negotiable. By 1 February 1979, send curriculum vitae and three letters of reference to: **Immunology Search Committee, Department of Microbiology, Montana State University, Bozeman, Montana 59717.** *An Equal Opportunity/Affirmative Action Employer.*

NEUROSCIENCES FACULTY. Faculty positions available in the Neurosciences Program, Maryland Psychiatric Research Center, affiliated with the University of Maryland School of Medicine. One position is open to a scientist with rigorous postgraduate training in neuroendocrinology, basic expertise in hormone assay procedures, and the capability to study functional aspects of hormones/polypeptides in a multidisciplinary clinical research center. The second position is for a scientist with rigorous postgraduate training in a neurobiology specialty with preference given to strength in biochemistry and/or genetics plus experience in cell or organ culture techniques. Submit curriculum vitae, summary of research interest, and two letters of reference by 15 November 1978 to: **Neurosciences Search Committee, Maryland Psychiatric Research Center, Box 3235, Baltimore, Md. 21228.** *An Equal Opportunity Employer.*

PARASITOLOGIST with background in medical entomology, to work on transmission aspects of human and bovid malaras in Pakistan. Doctoral degree with experience and American citizenship required. Faculty appointment: University of Maryland. Rank and salary commensurate with experience. Applicants should send curriculum vitae, bibliography, and the names of three references to: **International Health Program, 660 West Redwood Street, Baltimore, Md. 21201.**

POSITIONS OPEN

FACULTY POSITION, CERAMIC ENGINEERING UNIVERSITY OF FLORIDA

The Department of Materials Science and Engineering is inviting applications for a tenure-track position at the assistant or associate professor level. Candidates should be interested in teaching undergraduate and graduate courses and in developing research programs. A Ph.D. in ceramics or related discipline is required. Curriculum vitae, list of publications, three letters of recommendation, and a statement of research interests should be submitted by 1 December 1978 to:

Professor E. Dow Whitney
Department of Materials Science and Engineering
University of Florida
Gainesville, Florida 32611
Telephone: 904-392-1451

The University of Florida is an Equal Opportunity/Affirmative Action Employer.

HISTOLOGIST/HISTOCHEMIST

The University of Arkansas Pathology Services Project (PSP) at the National Center for Toxicological Research (NCTR) has an opening for a histologist/histochemist. Applicants should possess the Ph.D. degree. Knowledge of histology, histologic technique, and histochemistry essential. Experience in autoradiography and electron microscopy desirable. Duties include: (i) supervision and administration of a histopathology laboratory, (ii) histochemical evaluation of tissues from rodents involved in toxicological studies, and (iii) involvement in medical and graduate education. Salary commensurate with qualifications/experience. Send résumé to: **Director, PSP-NCTR, HFT-230, Jefferson, Ark. 72079.** *Equal Opportunity Employer.*

THE LADY DAVIS INSTITUTE FOR MEDICAL RESEARCH JUNIOR RESEARCH STAFF POSITION

A full-time position is available for an M.D. or Ph.D. with at least 2 years of postdoctoral research experience to establish an independent research program. Our current activities include studies on cancer (cell growth control, nutrient transport, gene regulation, hormone receptors), control of protein synthesis, lymphocyte function, diabetes, somatic cell genetics, and aging. The interests of candidates may relate to but need not be confined to these topics. Send curriculum vitae with short description of research proposal (long-term objectives, immediate goals, research plan, and significance of proposed work) to: **Director, Lady Davis Institute for Medical Research, Jewish General Hospital, 3755 Cote Sainte Catherine Road, Montreal, Quebec, Canada H3T 1E2.** Closing date: 31 October 1978.

MEMBRANE BIOLOGIST

Anticipated position as assistant professor in Department of Biological Sciences, University of California, Santa Barbara, effective July 1979, for a membrane biologist whose research interests in either plant or animal membranes complements on-going research in the department.

Applications with curriculum vitae, list of publications, names of references, and summary of research interests should be sent to: **Chairman, Department of Biological Sciences, University of California, Santa Barbara, California 93106.** Letters of reference should not be sent until requested. Applications must be postmarked no later than 15 December 1978. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

NEUROMORPHOLOGIST/NEUROBIOLOGIST

The Department of Cell Biology is seeking a faculty member at the level of assistant professor. Formal teaching duties include teaching in the medical neuroscience course. The successful applicant will be expected to establish an independent research program in the field of neurobiology and contribute to an active research environment. Applicants should submit curriculum vitae, including a list of publications and names of references, to:

Dr. D. J. Woodward
Faculty Research Committee
Department of Cell Biology
The University of Texas
Health Science Center at Dallas
Southwestern Medical School
5323 Harry Hines Boulevard
Dallas, Texas 75235

The University of Texas is an Equal Opportunity/Affirmative Action Employer, M/F/H.

Associate Technical Director For Propulsion and Auxiliary Systems

\$42,423 to \$47,500(negotiable)

**DAVID W. TAYLOR NAVAL SHIP RESEARCH &
DEVELOPMENT CENTER**

The incumbent will plan, direct and review the work of the Propulsion and Auxiliary Systems Department, consisting about 300 employees and a budget of about \$25 million. This organization, located at our Annapolis, Maryland laboratory, is the Navy's primary facility for RDT&E in ship propulsion and auxiliary machinery systems and associated areas of technology. Programs encompass a wide range of engineering and scientific disciplines and range from work in power and propulsion, including electrical propulsion, to nuclear ancillaries, machinery silencing and dynamics, automation & control, engineering systems integration, fluid systems, piping systems, deep ocean vehicle machinery, and ship energy conservation.

The incumbent will have responsibility for

planning and formulating broad programs and missions within the Department, and interfacing them with other programs at the Center and with the Center's overall mission. As part of the Center's top management team the incumbent will contribute to intermediate and long-range planning of Center activities.

Candidates should have established stature in directing or performing R&D in a field of engineering or physical science which demonstrates ability to readily grasp the technical concepts in the work discussed above and to provide leadership in this work.

Career civil service benefits apply. If interested, please send a SF-171 (Personal Qualifications Statement) or resume to:

**Civilian Personnel Department
Code 712.6
DTNSRDC
Bethesda, Maryland 20084**
An Equal Opportunity Employer

TERRESTRIAL BIOLOGIST

Environmental Engineering Challenge

Detroit Edison, one of the nation's major power generation utilities, is expanding its environmental engineering staff. An MS in Biology plus four years experience in areas such as the direction of field studies in Terrestrial biology, and power plant biology are required.

Under the direction of the Biological Systems Scientist, the Terrestrial Biologist will conduct environmental field work, assist in the planning of terrestrial investigations, review contractor programs in terrestrial biology, and direct a technical staff in implementation of solution to problems resulting from the discharge of airborne and solid wastes. Excellent communications skills are a must.

We offer a very competitive salary and comprehensive benefits. For confidential consideration, please forward your resume to:

**Detroit
Edison**

**2000 Second Avenue
Detroit, Michigan 48226 S-810**
An Equal Opportunity Employer

POSITIONS OPEN

INVERTEBRATE PHYSIOLOGIST

Anticipated faculty position at the University of California, Santa Barbara, Department of Biological Sciences. Effective 1 July 1979. Applications are sought from persons interested in a position as an assistant professor of invertebrate physiology who will be able to contribute to our general course in invertebrate zoology and whose research interests lie in behavioral, neuro- and/or developmental biology.

Applications with curriculum vitae, list of publications, names of references, and summary of research interests should be sent to: **Chairman, Department of Biological Sciences, University of California, Santa Barbara, California 93106.** Letters of reference should not be sent until requested. Applications must be postmarked no later than 15 December 1978. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

MEMBRANE BIOCHEMISTRY

Postdoctoral position available spring-summer 1979 for a recent Ph.D. to participate in research on the structure and function of eukaryote plasma membranes. Reply with curriculum vitae, GRE scores, and names of three references to: **Dr. Gene A. Scarborough, Department of Pharmacology, School of Medicine, The University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27514.**

PHYSICAL OCEANOGRAPHER. Marine research associate II to conduct and manage basic research in ocean dynamics within IDOE sponsored SOFAR float program. Activities include design and execution of field studies, analysis of Lagrangian measurements, and model development and evaluation. Ph.D. or equivalent. Apply by 6 October 1978, to: **Dr. T. H. Rossby, Graduate School of Oceanography, University of Rhode Island, Kingston, R.I. 02881.** *Affirmative Action/Equal Opportunity Employer.*

PLANT POPULATION BIOLOGIST

The Department of Biology at Washington University, St. Louis, announces an appointment in the area of plant population biology, stressing plant physiological ecology. Applications are solicited from individuals who have demonstrated exceptional competence in research beyond the doctorate and are interested in undergraduate and graduate teaching. Although it is anticipated that most applicants will be at a junior level, applications from senior individuals will be welcomed. Send curriculum vitae, description of present and future research interests, and names of three references to: **Dr. Walter H. Lewis, Department of Biology, Washington University, St. Louis, Mo. 63130.**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL and/or ASSISTANT RESEARCH SERIES POSITIONS are available in the Department of Psychobiology, University of California, Irvine. The faculty involved and areas of research are as follows: C. Cotman—neural plasticity, chemical, and anatomical aspects of synapse formation and plasticity; experience in biochemistry and/or neuroanatomy desired; G. Lynch—ultrastructural changes which follow experimental denervation in both the developing and mature brain; experience in light microscopy, scanning electron microscopy, and transmission electron microscopy desired; J. Marshall—neuropharmacology and behavior; expertise in neurochemistry desired; J. McGaugh—neurobiological basis of learning and memory; background in neurophysiology, neuroanatomy, and neurochemistry desired; R. F. Thompson—brain mechanisms of learning and memory; expertise in neurophysiology, neuroanatomy, and neurochemistry desired.

For further information contact individual faculty member in area of interest at: **Department of Psychobiology, University of California, Irvine, Irvine, California 92717.**

The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION: to work on the development of immunological assays for the early diagnosis of bladder cancer in man. Available fall 1978. Experience in immunochemical methods necessary. Send curriculum vitae and two letters of reference by 15 October to:

**Dr. James J. Gozzo
College of Pharmacy and Allied Health Professions
Northeastern University
360 Huntington Avenue
Boston, Mass. 02115**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

POSTDOCTORAL POSITION available to study metabolic regulation and/or enzyme turnover in cultured human cells. Experience in protein isolation techniques desirable. Salary to \$11,000. Send résumé and names of references to:

**Dr. Ifeanyi Arinze
Department of Biochemistry
Meharry Medical Center
Nashville, Tennessee 37208**

POSTDOCTORAL POSITION available (2 years) in the area of molecular cloning of spore genes in *Bacillus subtilis*. Applicants should have extensive experience in microbiology, microbial genetics, and/or biochemistry. Salary commensurate with the position and experience. Send curriculum vitae and the names and phone numbers of three individuals who will serve as references to:

**Dr. Paul S. Lovett
Department of Biological Sciences
University of Maryland Baltimore County
Catonsville, Maryland 21228**

The University of Maryland is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in insect neurobiology for 1 or 2 years. Available immediately. Experience in intracellular recording and staining techniques desirable. Inquiries to:

**Dr. K. G. Pearson
Department of Physiology
University of Alberta
Edmonton, Canada T6G 2H7**

POSTDOCTORAL POSITION available for 2 years beginning February 1979. Research on genetic toxicology of environmental mutagens. Background in biochemical genetics, eukaryote and/or prokaryote, as well as use of high-pressure liquid chromatography is desirable. Send résumé and letters of reference to: **Dr. Peter M. McGuire, Box J-245, Department of Biochemistry and Molecular Biology, University of Florida, Gainesville, Fla. 32610.**

POSTDOCTORAL POSITION IN NEUROPHARMACOLOGY to study spinal neuronal mechanisms involved in the control of locomotion. An electrophysiological-pharmacological investigation of the role of descending monoaminergic pathways in locomotion. Experience with extracellular microelectrode recording techniques necessary, knowledge of microiontophoresis would be useful. Stipend: \$13,000. Position available 1 October. Send résumé and names of two referees to: **Dr. Ronald D. Huffman, Department of Pharmacology, University of Texas Medical School, 7703 Floyd Curl Drive, San Antonio, Texas 78284.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available in Department of Anatomy, Medical College of Pennsylvania. Applicants should have experience in single-cell recording and an interest in development of the mammalian visual system. Send application and references to: **Dr. E. Hazel Murphy and Dr. Nancy Bertram, Medical College of Pennsylvania, Department of Anatomy, 3300 Henry Avenue, Philadelphia, Pennsylvania 19129.**

POSTDOCTORAL POSITION

Appointment as **RESEARCH ASSOCIATE** in the Department of Biochemistry at Baylor College of Medicine. Position available immediately for Ph.D. in biochemistry or microbiology to study ion transport in bacterial membrane vesicles. Salary starting at \$12,500 for 1-year appointment, renewable up to 2½ years. Send curriculum vitae and names of two references to: **Dr. Eugene M. Barnes, Jr., Department of Biochemistry, Baylor College of Medicine, Houston, Texas 77030.**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION(S). The Department of Anatomy is seeking applicants for up to two postdoctoral positions which are available immediately. NRSA stipend and conditions apply to one position. Particularly sought is a cell kineticist preferably with a background and experience in endocrinology and/or intestinal epithelial kinetics to work with Dr. J. G. Sharp, and an individual with background in radioimmunoassay, immunocytochemistry, or male reproductive biology to work with Dr. P. J. Gardner. Applications to: **Department of Anatomy, University of Nebraska Medical Center, Omaha, Nebraska 68105; telephone: 402/541-4030.** *An Equal Opportunity Employer, M/F/H.*

POSITIONS OPEN

POSTDOCTORAL POSITION available: a postdoctoral fellowship is available immediately in cardiovascular physiology. Specific areas of interest include the reflex control of the circulation, chronic heart failure, and volume control. Stipend: \$13,000. Send curriculum vitae and names of three references to: **Dr. I. Zucker, Department of Physiology, University of Nebraska College of Medicine, 42nd and Dewey, Omaha, Nebraska 68105.** *The University of Nebraska is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION in cellular immunology available immediately to study the responses of lymphocytes from patients with oral mucous membrane disease. Federally funded project. Position available for 1 year with renewal up to 3 years probable. Training in immunology essential with some postdoctoral experiences preferable. Salary: \$11,880 to \$14,916. Send curriculum vitae and names of three references to: **Dr. John S. Greenspan, Department of Oral Medicine and Hospital Dentistry, University of California, San Francisco, Calif. 94143.** Telephone: 415-666-2220.

An Equal Opportunity/Affirmative Action Employer. Female and minority candidates are encouraged to apply.

POSTDOCTORAL POSITION open immediately to study stem cell proliferation and differentiation in *Hydra*. Applicant should have training in cell biology/cytology/cell culture and an interest in development problems. Send curriculum vitae and two letters of recommendation to: **Dr. Charles N. David, Department of Molecular Biology, Albert Einstein College of Medicine, Bronx, N.Y. 10461.**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION for recent Ph.D. graduate trained in anatomy, biochemistry, or immunology for work in an anatomy department on a project supported by the Medical Research Council of Canada on the study of cell dynamics using radioautography. The starting yearly rate is \$11,600. Write or telephone: **Dr. C. P. Leblond, Department of Anatomy, McGill University, 3640 University Street, Montreal, Quebec, Canada H3A 2B2, telephone: 514-392-4931.** The work could start on 1 October 1978 or later.

POSTDOCTORAL POSITION. Ph.D. in biochemistry or molecular biology to study hormonal regulation of mRNA synthesis. Background in enzymology and/or protein synthesis desirable. Salary: \$14,000. Send résumé and two letters of reference to: **John W. Porter, Department of Physiological Chemistry, 589 Medical Science Building, University of Wisconsin, Madison, Wisconsin 53706.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE. M.D. or Ph.D. with previous experience in immunopathology, to perform research in immunology of reproductive tract. Salary: \$11,500, plus fringe benefits. Send curriculum vitae to: **Dr. P. E. Bigazzi, Department of Pathology, University of Connecticut Health Center, Farmington, Conn. 06032.** *An Equal Opportunity Employer, M/F.*

POSTDOCTORAL RESEARCH ASSOCIATE

Recent Ph.D. with background in aquatic ecology and/or limnology to carry out paleolimnological research on effects of atmospheric inputs of acids and heavy metals on lake plankton, including diatom and cladoceran analyses of lake sediment cores. Essential prior experience in: (i) diatom taxonomy and identification and (ii) multivariate statistics and associated computer programming. Send curriculum vitae and names of three references to: **Ronald B. Davis, Department of Botany and Plant Pathology, University of Maine, Orono, Maine 04469.** *Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE

Isotope geochemist to work on research problems in solid earth geochemistry including: low blank separation in ultraclean conditions of trace quantities of strontium, lead, uranium, alkali metals, and rare earth elements from meteorites and ultrabasic rocks; operation of ultrahigh vacuum solid-source spectrometers for high-precision isotopic analyses of these elements; fieldwork in Archean terranes. Applicants must have a Ph.D. in geology or geochemistry with specialized training and/or experience in this research area. Please send résumés to: **Mary Burton, Lamont-Doherty Geological Observatory of Columbia University, Department ST, Palisades, New York 10964.** *An Equal Opportunity/Affirmative Action Employer, M/F.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

Available immediately to study either: (i) multi-enzyme complexes in DNA precursor biosynthesis, (ii) bacteriophage replication, or (iii) molecular cloning of bacteriophage genes. Send inquiries, with names of three references, to: Dr. Christopher K. Mathews, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, Oregon 97331. Oregon State University is an Affirmative Action/Equal Opportunity Employer, which complies with Section 504 of the Rehabilitation Act of 1973.

PROFESSOR OF PATHOLOGY

Applications are sought for the position of professor of pathology in the Eastern Virginia Medical School. We seek a candidate with M.D. degree and experience in anatomical pathology both at the academic- and hospital-practice level to participate in an active educational program for the teaching of medical students and residents. Excellent department research facilities available, including electron microscopy. Applications should include curriculum vitae, bibliography, and letters of recommendation. Please send to: Robert J. Faulconer, M.D., Chairman, Department of Pathology, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, Virginia 23501. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Biochemical and somatic cell genetics. A research associate position is now available in the Section of Medical Genetics of the Department of Medicine at Baylor College of Medicine. This full-time research position requires experience in cell culture techniques and strong biochemical background. Two human heritable disorders are currently under study utilizing these techniques. The objective of the studies is that of determining at a biochemical level the mechanisms of the disease states and to develop prenatal diagnostic methods for each. Submit curriculum vitae and letters of recommendation to: Dr. C. Thomas Caskey, Room 544E, Department of Medicine, Baylor College of Medicine, 1200 Moursund Avenue, Houston, Texas 77030. Baylor is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS. Two postdoctoral appointments now available for Ph.D.'s in biochemistry or cell biology. Each appointment is initially for 1 year with option for subsequent renewal(s). First year salary: \$14,000 to \$15,000, depending on experience. One position requires previous experience in the biochemistry and biology of chromatin. The second position requires previous experience in mechanistic studies of hormonal regulation of target tissue functions. Both positions relate to the pathophysiology of disease in hormone target tissues. Please send résumé and names of three references to: Personnel Manager, Southwest Foundation for Research and Education, P.O. Box 28147, San Antonio, Texas 78284. An Equal Opportunity/Affirmative Action Employer.

CLEMENT ASSOCIATES, INC., consultants in the environmental and health-related sciences, is seeking **SPECIALISTS** in the following disciplines:

- Chemistry**
 - organic chemistry
 - environmental chemistry
- Biology**
 - biochemistry
 - toxicology
 - pharmacology
- Environmental Sciences**
 - ecology
 - air and water pollution control
- Occupational Health**
 - industrial hygiene
 - chemical engineering
- Medicine**

A graduate degree is required and a doctorate preferred. Clement is a leading firm in the fields of human and environmental health. We offer excellent salaries and comprehensive benefits. Applications and inquiries should be sent to:

CLEMENT ASSOCIATES, INC.
Scientific Regulatory Consultants
1010 Wisconsin Avenue, NW, Suite 660
Washington, D.C. 20007

Marie Baumann, Personnel Director

POSITIONS OPEN

RESEARCH ASSOCIATE. Analytical chemist to join clinical research group interested in the neurochemistry of mental disorders. Main responsibility is in development of methods, particularly with GC-MS. Experience preferred but not necessary. Available immediately; salary range: \$15,000 to \$18,000. Send curriculum vitae to: Philip A. Shea, Ph.D., Department of Psychiatry, Institute of Psychiatric Research, Indiana University Medical Center, 1100 West Michigan Street, Indianapolis, Ind. 46202. Indiana University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SPECIALIST

Molecular biology of protein synthesis during corn kernel development. Applicants should have interest in molecular biology, plant genetics, and application to plant improvement. Experience in corn genetics, biochemistry of nucleic acids and proteins is desirable. Send curriculum vitae, research interests, and three references to: Dr. B. G. Gengenbach, Department of Agronomy and Plant Genetics, University of Minnesota, St. Paul, Minn. 55108, by 1 November 1978. The University of Minnesota is an Equal Opportunity Employer and Educator.

RESIDENT IN MICROSURGERY

Department of Biological Sciences, Purdue University, seeks a qualified individual to perform microsurgery on embryos and adult rodents in conjunction with experiments involving central nervous system lesions and implantations. Background in histology, autoradiography, and electron microscopy required. Salary range: \$9,000 to \$10,500. Send résumé to: Department Head, Department of Biological Sciences, Purdue University, Lafayette, Indiana 47907.

Equal Opportunity/Equal Access Employer

VIROLOGIST. Ph.D. virologist or immunologist and experienced virologic technician for conduct of 2-year vaccine study to start 1 October 1978. Send résumé to: Dr. E. D. Kilbourne, Department of Microbiology, Mt. Sinai School of Medicine, Fifth Avenue and 100th Street, New York, N.Y. 10029. An Equal Opportunity Employer, M/F.

PHARMACOLOGIST (GI)

ICI Americas Inc., a subsidiary of Imperial Chemical Industries, Ltd. (ICI) of London, England, has an opening for a GASTRO-INTESTINAL PHARMACOLOGIST in the Biomedical Research Department, pharmaceuticals R & D, located in suburban Wilmington, Delaware.

Interested candidates should have the following credentials:

- BS/MS in Pharmacology—or related biological field.
- Good chemical background.

Salary commensurate with qualifications and experience plus an excellent benefits package. Send resume and college transcripts in confidence to:

Margaret M. McElwee



ICI Americas Inc.

Wilmington, Delaware 19897

An Equal Opportunity Employer M/F

DIRECTOR

YOUTH DEVELOPMENT RESEARCH CENTER

Nominations and applications are being received for the position of Director of the Boys Town Center for the Study of Youth Development.

Established in 1974, the Boys Town Center has attracted a recognized professional staff in the social and behavioral sciences. The Center's mandate is to conduct significant interdisciplinary research and to disseminate findings related to problem prevention and the rehabilitation of troubled youth. The Center occupies new research facilities which are augmented by computer facilities, a specialized library, and conference accommodations. Center activities are supported by an annual budget from Father Flanagan's Boys' Home, Omaha, Nebraska.

The Director is the principal executive officer of the Center and reports directly to the Executive Director of Father Flanagan's Boys' Home and its Board of Directors. The Center Director is responsible for the total operation of the Center including establishing program priorities, professional staff recruitment and evaluation, and fiscal management. The Director also coordinates research and dissemination activities between the Center and regional centers located at Catholic University of America and Stanford University.

The Director must have a combination of education and experience commensurate with the responsibility and authority assigned to the position. He/She must have a doctorate degree, preferably a Ph.D., in an area related to human development and shall have a minimum of five years of administrative-research experience with two years in a senior administrative role. It is desirable that the Director have an outstanding research/publication record. The Director must have the ability to establish a planning process resulting in policies and annual budgets for a large research operation. He/She must have the ability to recruit outstanding scholars in the field of youth development and to coordinate the efforts of a highly qualified and diverse professional staff. The Director must be familiar with research administration, extramural funding procedures, dissemination techniques, data processing functions, library activities, training methodology, and conference programming. He/She must be able to represent the Center effectively to the Executive Director, Board of Directors, the scholarly community and the general public.

The Director position is available 1 January 1979. Salary is competitive. Nominations and applications, including resume and three references, should be submitted by 30 October 1978 to:

Dr. Claude H. Organ, Jr.
Chairman, Search Committee
The Boys Town Center
Boys Town, NE 68010

Boys Town is an Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

The University of Alexandria Research Centre (UNARC), Alexandria, Egypt, announces **POSTS** (starting 15 September 1979) for experts with at least 5 years of postdoctoral research experience in: (i) corrosion science, (ii) semiconductors and/or integrated circuits, and (iii) laser physics. There is also a post (iv) for a laboratory engineer having a B.E. with adequate practical experience. The experts will be required to conduct and supervise predoctoral research, collaborate with the postdoctoral fellows, give advanced courses and hold seminars in their respective specializations. The laboratory engineer will maintain, repair, and design the laboratory equipment, as well as train local counterparts in laboratory operations.

Appointments will be made on contractual basis for 1 year at the candidate's present substantive salary, to be paid in the United States, plus different allowances and passage money (for candidate and family), including transportation of household.

Working language is English, with knowledge of Arabic desirable. Interested scientists should apply before 1 December 1978 to: **Director, UNARC, Box 832, Alexandria, Egypt**. Further information is available from: **Edgar Pike, NE/Tech., U.S. AID, U.S. Department of State, Washington, D.C. 20523**.

RESEARCH ASSOCIATE

Research associate position available in the seismology group for a geophysicist specializing in the theory and measurement of earth crustal deformation and earth tides. The position requires a Ph.D. in geophysics with at least 2 years of postdoctoral experience and a strong background in mathematics, physics, and data analysis. Should also have field experience with strainmeters, tiltmeters, and so forth. Please send curriculum vitae to: **Mary Burton, Lamont-Doherty Geological Observatory of Columbia University, Department SS, Palisades, New York 10964**. An Equal Opportunity/Affirmative Action Employer, M/F.

RESEARCH ASSOCIATE for study of control of feeding behavior. Ph.D. and prior experience necessary. Appointment is for 1 year beginning immediately. Please send curriculum vitae and three references to:

Gerard P. Smith, M.D.
Department of Psychiatry
New York Hospital-Cornell Medical Center
21 Bloomingdale Road
White Plains, N.Y. 10605

RESEARCH TRAINING IN SALIVARY SECRETION

Positions are available for research training in salivary secretion and related areas. Applicants should have Ph.D. or a professional degree (M.D., D.D.S., D.V.M., or equivalent) and must be U.S. citizen or have permanent visa. Persons with backgrounds in nutrition, experimental pathology, or protein biochemistry are preferred. Graduate programs leading to Ph.D. or M.S. are available. Stipends: \$10,000 to \$14,000, depending on experience.

Send curriculum vitae and statement of research interests to: **Dr. Olav Alvares, Department of Oral Biology, University of Washington, School of Dentistry, Seattle, Wash. 98195**.

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THEORETICAL PHYSICIST. Applications are invited for a regular faculty position beginning fall 1979, at the assistant professor level, jointly in the Department of Physics and the McDonnell Center for the Space Sciences, Washington University. The McDonnell Center consists of faculty in several disciplines carrying out solar system, stellar, and galactic research. Preference will be given to candidates with interests and experience closely related to existing center programs. A brochure describing activities of the McDonnell Center is available upon request. While we expect to hire at the assistant professor level, candidates with exceptional qualifications and accomplishments may be considered for a more senior appointment. Applications, including names of at least three referees, should arrive by 15 November 1978. Address:

Professor John W. Clark
Search Committee Chairman
Department of Physics
Washington University
St. Louis, Mo. 63130

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POSITIONS OPEN

RESEARCH ASSISTANT, HUMAN BEHAVIOR GENETICS. One-third time, field work among Hutterites of Alberta; two-thirds time, data analysis. Qualifications include warm, cheerful personality and previous work with people. Quantitative background, graduate work in human genetics—biological anthropology—cognitive psychology behavioral science. Salary from \$7,000 depending on qualifications. Send curriculum vitae to: **Dr. Donald Kolakowski, University of Connecticut, Box U120, Storrs, Conn. 06268**.

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SYMPOSIUM

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For information write: **Dr. Robert L. Soulen**
Southwestern University
Georgetown, Texas 78626

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WORKSHOP

The program office of the newly established atmospheric chemistry program in the Atmospheric Sciences Division of the National Science Foundation has expressed interest to sound the atmospheric chemistry community in the United States on which areas to pursue in atmospheric chemistry over the next few years. To this purpose a **WORKSHOP** is planned to be held in Boulder, Colorado, at the National Center for Atmospheric Research during the period 16 to 20 October 1978. The purpose of the workshop is to prepare a strategy document in atmospheric chemistry for the National Science Foundation. As the stratosphere is well covered in a number of recent documents, the domain of interest of the workshop will mainly be the chemistry of the troposphere, including the exchange between the stratosphere and troposphere and the atmospheric effects of biological processes in the oceans and over land. For further information, contact: **Dr. Paul Crutzen, National Center for Atmospheric Research, P.O. Box 3000, Boulder, Colorado 80307; telephone: 303-494-5151, extension 338; Dr. C. S. Kiang, School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, Georgia 30322; telephone: 404-894-2857; or Dianne Bernier, National Center for Atmospheric Research; telephone: 303-494-5151, extension 461**.

TRAINEESHIPS

POSTDOCTORAL TRAINEESHIPS IN NEUROPLASTICITY. Positions are available for training in research related to the development and regeneration of the nervous system. The traineeships, supported by an NINCDS training grant, are available to individuals with the Ph.D. or M.D. degree beginning 1 January or 1 July 1979. This multidisciplinary program has as available preceptors Doctors N. Berman, T. Cunningham, M. Goldberger, H. Murphy, M. Murray, L. Pablos, L. Ross, and B. Weiss. Applications, consisting of a statement of research interests, curriculum vitae, and three references, should be sent to: **Dr. Leonard L. Ross, Department of Anatomy, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, Pa. 19129**. An Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP. Available 1 October 1978 or thereafter for studies of the biochemical-genetics of carbon dioxide fixation. Prospective or recent Ph.D. with strong background in biochemistry or genetics. Curriculum vitae and three supporting letters to: **R. C. Valentine, Plant Growth Laboratory, University of California, Davis, Calif. 95616**. An Equal Opportunity Employer.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS. A program in evaluation of mental health care delivery systems aimed at developing mathematical models for use in evaluating effectiveness and efficiency of delivery systems. Seeking applications from persons with background and/or interest in quantitative and social/behavioral sciences including economics, management, modeling, urban planning, and so forth. Intellectual atmosphere is interdisciplinary. Send curriculum vitae to: **Mortimer Brown, Ph.D., Program Co-Director, Department of Psychiatry, University of South Florida, MDC Box 14, 12901 North 30th Street, Tampa, Fla. 33612**.

POSTDOCTORAL FELLOWSHIP, NEUROGENETICS LABORATORY, DUKE UNIVERSITY MEDICAL CENTER

Opening immediately available for Ph.D. or M.D. for a postdoctoral fellowship in Neurogenetics and Biochemistry Tissue Culture Laboratory. Project in glycoprotein-biochemistry is being conducted in collaboration with the Biochemistry Department.

Contact: **A. Tourian, Box 3066, Duke University Medical Center, Durham, North Carolina 27710**.

POSTDOCTORAL RESEARCH FELLOWSHIPS in a NIMH-University of Pennsylvania program in psychopharmacology and the psychobiology of psychiatric illness. Applicants should be Ph.D.s in pharmacology, neurobiology, psychology, or a related discipline or M.D.s with at least 2 years of psychiatric training. Candidates must be citizens or non-citizen nationals of the United States or be permanent residents. Please send curriculum vitae and full details of interest to: **A. Frazer, Ph.D., Veterans Administration Hospital (151E), Philadelphia, Pennsylvania 19104**.

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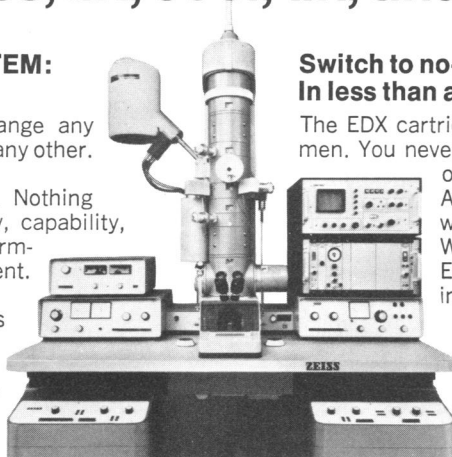
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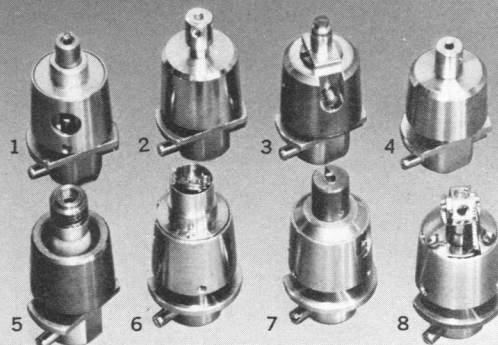
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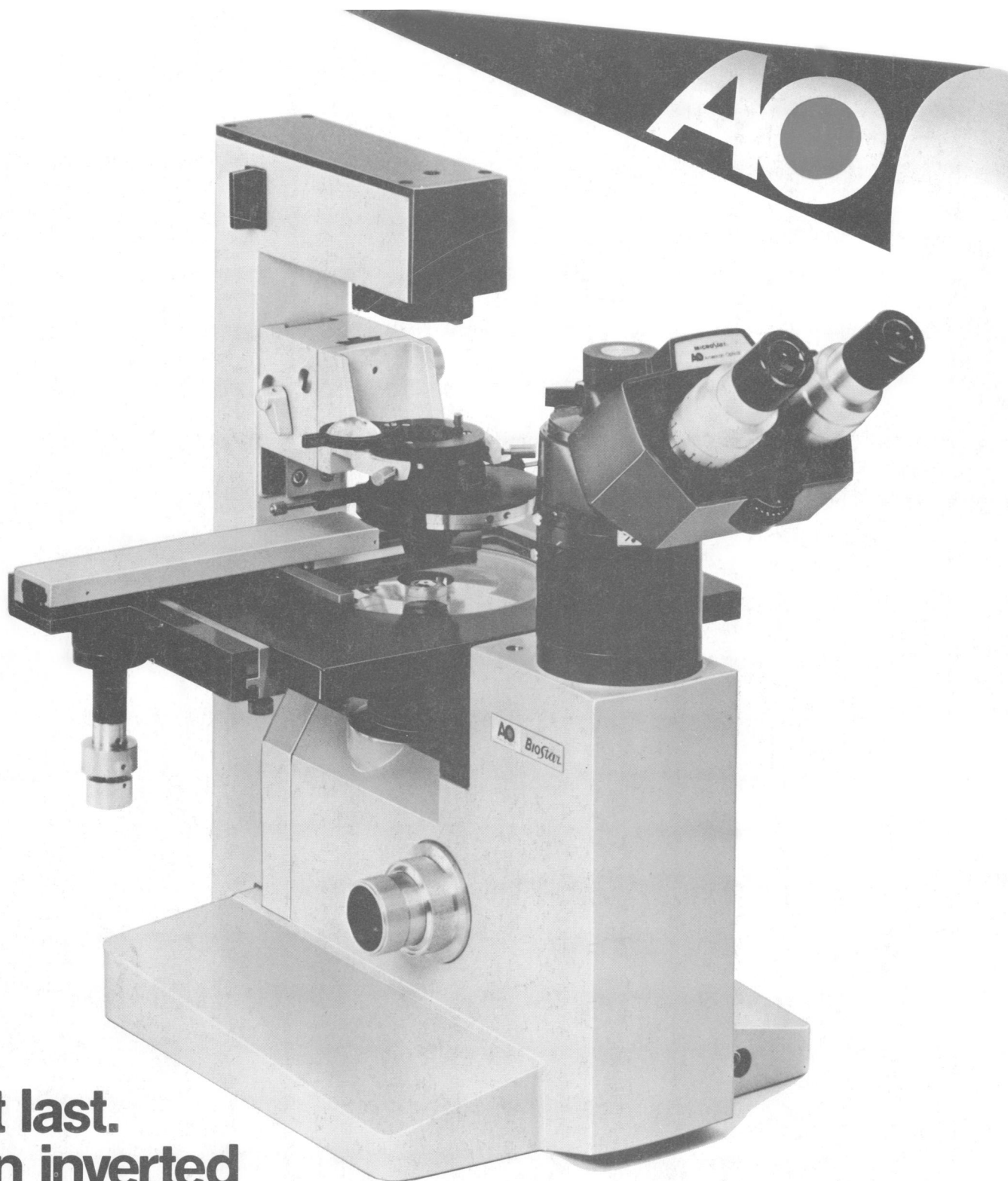
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