

British Museum (Natural History), London, and Comstock (Cornell University Press), Ithaca, N.Y., ed. 2, 1977. vi, 446 pp. \$27.50.

**Population Biology of Plants.** John L. Harper. Academic Press, New York, 1977. xxvi, 892 pp., illus. \$58.60.

**Postwar Fertility Trends and Differentials in the United States.** Ronald R. Rindfuss and James A. Sweet. Academic Press, New York, 1977. x, 226 pp., illus. \$12.50. Studies in Population.

**Practical Electron Microscopy in Materials Science.** J. W. Edington. Van Nostrand Reinhold, New York, 1977. xii, 344 pp., illus. \$34.50. To order this book circle No. 382 on Readers' Service Card.

**The Proceedings of the Fifth Biennial International CODATA Conference.** Boulder, Colo., June 1976. Bertrand Dreyfus, Ed. Pergamon, New York, 1977. xxvi, 642 pp., illus. \$50. To order this book circle No. 387 on Readers' Service Card.

**Proceedings of the International Symposium on Plasma Wall Interaction.** Jülich, Germany, Oct. 1976. Published for the Commission of the European Communities by Pergamon, New York, 1977. xiv, 750 pp., illus. Paper, \$65. To order this book circle No. 383 on Readers' Service Card.

**Prof. E. McSquared's Original, Fantastic and Highly Edifying Calculus Primer.** Howard Swann and John Johnson. Kaufman, Los Altos, Calif., 1977. 214 pp., illus. Cloth, \$15.95; paper, \$7.95.

**Secondary Metabolism and Cell Differentiation.** M. Luckner, L. Nover, and H. Böhm. Springer-Verlag, New York, 1977. vi, 132 pp., illus. \$21.20. Molecular Biology, Biochemistry and Biophysics, 23. To order this book circle No. 372 on Readers' Service Card.

**Selected Topics in Environmental Biology.** Papers from a congress: New Delhi, Oct. 1974. Balraj Bhatia, G. S. Chhina, and Baldev Singh, Eds. Pergamon, New York, 1977. xvi, 530 pp., illus. \$120. To order this book circle No. 373 on Readers' Service Card.

**Thermodynamic Network Analysis of Biological Systems.** J. Schnakenberg. Springer-Verlag, New York, 1977. viii, 144 pp. Paper, \$16.80. To order this book circle No. 388 on Readers' Service Card.

**The Treatment of Phobic and Obsessive Compulsive Disorders.** Papers from a meeting, Spetsae, Greece, Sept. 1976. J. C. Boulougouris and A. D. Rabavilas, Eds. Pergamon, New York, 1977. xii, 148 pp., illus. \$15. To order this book circle No. 384 on Readers' Service Card.

**The Understanding of the Brain.** John C. Eccles. McGraw-Hill, New York, ed. 2, 1977. xii, 244 pp., illus. Paper, \$5.95.

**Water Balance in Land Arthropods.** E. B. Edney. Springer-Verlag, New York, 1977. xii, 284 pp., illus. \$34.40. Zoophysiology and Ecology, vol. 9. To order this book circle No. 390 on Readers' Service Card.

**Waves on Water of Variable Depth.** Papers from a symposium, Canberra, Australia, July 1976. D. G. Provis and R. Radok, Eds. Australian Academy of Science, Canberra, and Springer-Verlag, New York, 1977. 232 pp., illus. Paper, \$22.50. Lecture Notes in Physics, vol. 64. To order this book circle No. 385 on Readers' Service Card.

**Water Purification in the EEC.** A State-of-the-Art Review. A report prepared by the Water Research Centre. Published for the Commission of the European Communities by Pergamon, New York, 1977. viii, 468 pp., illus. Paper, \$38. To order this book circle No. 374 on Readers' Service Card.

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## POSITIONS WANTED

**Biochemical Endocrinologist.** Ph.D. Two years of independent postdoctoral research and teaching. Extensive experience in human and experimental mammary cancers, hormone receptors, tissue culture, and RIA. Broad proficiency in biochemical techniques. Publications, societies, honors, and references. Prefers academic or industrial position. Available summer 1978. Box 18, SCIENCE. 2/17; 3/3, 17

**Chemical Oceanographer.** Ph.D. 1971; B.S., Ch.E. 1963; background in particulates, geochemistry, and estuarine research. Foreign, academic, and governmental experience including administration of a multidisciplinary research group; publications. Looking for research, teaching, or industrial position, South or West coast. Box 52, SCIENCE. X

**Oceanographer/Program Manager.** Ph.D. 1969, physical oceanography, Scripps Institution of Oceanography; substantial at-sea experience. Last 3 years responsible for organizing, planning, initiating, and directing the development of ocean energy projects and the successful establishment of an ocean-energy research center in Hawaii. Seeking new opportunities. Box 60, SCIENCE. X

**Parasitologist—Medical Entomologist.** Ph.D. Extensive experience: research in ectoparasite biology, vector ecology, experimental and natural transmission of pathogenic agents, multidisciplinary and inter-institutional research programs; numerous publications, many grants and contracts, teaching and administrative experience. Seeks responsible administrative, governmental, industrial or research/teaching position, major metropolitan area. Box 56, SCIENCE. X

**Pharmacologist.** Ph.D. 1973. Postdoctoral, teaching, and research experience. Strong background in gastrointestinal pharmacology and transport techniques. Publications. Seeks industrial, governmental, or academic position. Box 54, SCIENCE. X

**Plant Biochemist—Physiologist.** Ph.D. 1975, postdoctoral publications; extensive experience in plant tissue culture; interested in industrial applications of plant tissue culture and biochemical analysis of plant growth and development. Desires research, industrial, or academic position. Box 55, SCIENCE. X

## POSITIONS OPEN

**AQUATIC BIOLOGIST.** Assistant or associate professor to teach undergraduate courses in limnology and resource management, to develop a course in ecosystem modelling, behavior, invertebrate biology, or other specialty, to participate in introductory courses, and to conduct a productive research program. Ph.D. required. Teaching or postdoctoral experience preferred. Effective 1978, contingent on funding. Submit curriculum vitae, three letters of recommendation, and transcripts by 15 March 1978 to: **Faculty Search Secretary, College of Arts, Sciences, and Letters, The University of Michigan—Dearborn, Dearborn, Michigan 48128.** A non-discriminatory, Affirmative Action, Title IX Employer.

Applications are invited for the position of **ASSISTANT PROFESSOR** to begin September 1978. Candidates must have a Ph.D. in mammalian physiology and preferably some postdoctoral training. The position involves teaching anatomy and physiology to undergraduates. Candidates should also be prepared to develop graduate and undergraduate courses in physiology for biology majors and must be capable of establishing an independent research program. Send curriculum vitae, including concise description of research and teaching background, current interests, and three letters of reference, by 24 February 1978 to: **Dr. Robert Jones, Chairman, Department of Biological Sciences, Herbert H. Lehman College—City University of New York, Bronx, New York 10468.** City University of New York is an Equal Opportunity/Affirmative Action Employer.

The Department of Physiology, University of South Carolina, invites applications for the position of **ASSISTANT/ASSOCIATE PROFESSOR**. Appointment to begin July 1978. Specialization in neuroendocrinology or neurorenal-endocrinology preferred, with emphasis in the area of hypertension. Candidates would be expected to participate in teaching medical students. Department orientation is in biomedical engineering and cardiovascular physiology. Salary negotiable. Interested individuals should send their curriculum vitae and the names of three references by 1 April 1978 to: **Dr. Francis Abel, Chairman, Department of Physiology, University of South Carolina, School of Medicine, Columbia, South Carolina 29208.** An Equal Opportunity/Affirmative Action Employer

Faculty position opening anticipated beginning either fall 1978 or spring 1979.

**ASSISTANT PROFESSOR.** Tenure-Track, **ANATOMY/HEMATOLOGY or ZOOLOGY/HEMATOLOGY.** Earned doctorate in anatomy or zoology. Preference to be given to individuals with broad training in biology and zoology. A strong commitment to teaching required. Approximately one-half the teaching assignment to be in hematology for biology majors with a concentration in clinical laboratory technology. The remaining teaching assignment to be in either anatomy, human biology, or general zoology. Closing date for application: 14 April 1978. Send curriculum vitae, three letters of reference, and complete transcripts to: **Chairman of Search Committee, Department of Biological Sciences, California State University, 6000 J Street, Sacramento, Calif. 95819.** An Equal Opportunity/Affirmative Action Employer

### ASSISTANT PROFESSOR OF EXPLORATION GEOPHYSICS IN THE UNIVERSITY OF CALIFORNIA, BERKELEY

Applications are invited for an assistant professor in the Engineering Geoscience Group in the field of applied or exploration geophysics. Applicants should have a Ph.D. and have an interest in teaching and research dealing with the application of geophysics in the broad area of energy and mineral exploration. Address inquiries to: **Chairman, Department of Materials Science and Mineral Engineering, University of California, Hearst Mining Building, Berkeley, California 94720.** The University of California is an Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply.

### ASSISTANT PROFESSOR METEOROLOGY

The Department of Geology invites applications for a tenure-track position beginning September 1978. The candidate will teach undergraduate courses in meteorology and paleoclimatology, and participate in development of a land-sea-air integrative research program focusing on the San Francisco Bay Area. A doctorate in meteorology or a closely related field is required. Send résumé, and three letters of reference to: **Dr. R. Pestrone, Geology Department, San Francisco State University, San Francisco, Calif. 94132.** An Equal Opportunity Employer.

## POSITIONS OPEN

The Department of Botany, Miami University, invites applications for the position of **ASSISTANT PROFESSOR OF BOTANY**, in the area of plant ecology. This is a tenure-track position. The appointment will begin 15 August 1978. Responsibilities include teaching, development of a research program, and direction of graduate students. Applications, curriculum vitae, transcripts, and three letters of recommendation should be sent to: **Thomas K. Wilson, Chairman of Search Committee, Department of Botany, Miami University, Oxford, Ohio 45056**, by 13 March 1978. Miami University is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR IN DEPARTMENT OF SURGERY

Ph.D. with several years of postdoctoral experience required for director of research laboratories concerned with studying various aspects of spinal cord trauma. Appointee should be familiar with electron microscopic, electrophysiological, and metabolic techniques with background in neuroanatomy and neurophysiology. Experience with radio isotope tracing methods desirable. Duties include administration of several laboratories and participation in spinal cord trauma research. Salary commensurate with experience.

Please send curriculum vitae to:

**Dr. William F. Collins, Chief  
Section of Neurosurgery  
Yale University School of Medicine  
333 Cedar Street  
New Haven, Connecticut 06510**

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**ASSISTANT OR ASSOCIATE PROFESSOR OF VERTEBRATE ZOOLOGY-FIELD BIOLOGY.** A Ph.D. is sought to teach vertebrate natural history, general biology, laboratories in human anatomy and physiology, and to curate the vertebrate collection. Effective date: 21 August 1978. Request application form and submit transcripts, complete résumé, and three letters of reference to: **Dr. Russell Centanni, Chairman, Department of Biology, Boise State University, Boise, Idaho 83725.** Closing date: 10 March 1978. An Equal Opportunity/Affirmative Action Employer.

A 1-year position will be available for an **ASSISTANT RESEARCH ENTOMOLOGIST** starting 1 June 1978 in the University of California International Center for Medical Research (ICMR) in Malaysia. American citizen holding a Ph.D. degree with additional training or experience in arbovirus epidemiology may apply to: **University of California ICMR Program Director, Department of International Health, University of California, San Francisco, Calif. 94143.** University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

### BEHAVIORAL ECOLOGY FULL PROFESSOR

The Department of Biological Sciences is seeking a senior scientist of stature in the area of behavioral ecology for an appointment beginning fall 1978. The department is interested in applicants who currently maintain an active research program and who have demonstrated substantial scientific achievements. The appointee will be expected to provide direction and leadership for the ecology/animal behavior program which currently consists of six faculty. The department has approximately 70 graduate students in M.S. and Ph.D. programs.

Please send curriculum vitae and three references to: **Kenneth P. Able, Chairman of Search Committee, Department of Biological Sciences, State University of New York at Albany, 1400 Washington Avenue, Albany, N.Y. 12222.**

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

**CHAIRPERSON.** University invites applications for the position of chairperson for the Department of Clinical Psychology. Candidate will establish predoctoral program and actively participate in the instructional programs of the university. Must demonstrate productivity in research, academic excellence, and administrative ability. Candidates must have a Ph.D. in psychology with postdoctoral training in neurobiology, neuropsychology, and psychopathology a plus. Send curriculum vitae to: **Michael Taylor, M.D., Chairperson, Search Committee, Department of Psychiatry and Behavioral Sciences, University of Health Sciences/The Chicago Medical School, Building 50, North Chicago, Ill. 60084.** An Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### BIOCHEMIST

A 1-year appointment as assistant professor is available in the Department of Biochemistry, College of Medicine, University of Saskatchewan. Applicants must have a Ph.D. and/or M.D. degree. Effective date of appointment is 1 July 1978 or 1 September 1978. Salary will be commensurate with experience and training. The appointment is conditional upon anticipated funds being available. Send curriculum vitae and names of three referees to: **Dr. J. D. Wood, Head, Department of Biochemistry, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0.**

**BIOLOGY FACULTY POSITIONS.** Assistant professor (Ph.D.) and instructor. Positions available September 1978. Candidates should be broadly trained in biology and have teaching experience. Liberal arts college background preferred. Courses include introductory biology, cell biology, ecology, plant taxonomy, and possibly invertebrate zoology and/or marine biology. Apply by 15 March. Direct application, curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Nancy Groseclose, Biology Department, Agnes Scott College, Decatur, Georgia 30030.** Application will be acknowledged when dossier is complete.

### CHAIRPERSON DEPARTMENT OF MEDICAL MICROBIOLOGY

The University of South Florida College of Medicine is undertaking a search for a professor and chairperson for its Department of Medical Microbiology.

Required qualifications include Ph.D. or M.D. degree with a significant record of achievement in teaching and research, with ability to maintain a strong Ph.D.-level graduate program.

More complete details will be made available upon request.

Complete curriculum vitae and letter of application or nomination should be addressed to: **Donn L. Smith, M.D., Search Committee for Medical Microbiology, Box 9, Medical Center, 12901 North 30 Street, University of South Florida, Tampa, Fla. 33612.**

*The University of South Florida is an Equal Opportunity Employer.*

University of California, Irvine, Department of Pathology, recruiting for faculty position at assistant or associate professor level as **CHIEF OF SURGICAL PATHOLOGY.** Required: M.D. Board-qualified, service experience in surgical and autopsy pathology, demonstrated interest in independent research. Duties: teach medical students and house staff; limited administrative responsibility. *All qualified candidates welcome; minorities and women encouraged to apply.* Send curriculum vitae and references to: **Edward R. Arquilla, M.D., University of California, Irvine, Medical Center, Department of Pathology, 101 City Drive South, Orange, California 92668** by 1 April 1978.

**CLIMATOLOGIST.** To head developing Climate Research Group at Scripps Institution of Oceanography concerned with climatic fluctuations (scale of months to millennia), with the aim of understanding causal relationships and developing predictive capabilities. Applicants should be able to interact with professionals and students. Salary level and rank are dependent upon qualifications. Send curriculum vitae, recent publications, and names of references by 30 April 1978 to: **the Chairman, Search Committee: Climatologist, Scripps Institution of Oceanography A-020, University of California, San Diego, La Jolla, California 92093.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### DEVELOPMENTAL BIOLOGY CENTER CASE WESTERN RESERVE UNIVERSITY

Applications are invited for individuals interested in postdoctoral training in various aspects of developmental biology including molecular, cellular, and tissue-related research programs. A multidisciplinary faculty offers a broad spectrum of research interests and opportunities. Fellowships are for at least 1 year starting 1 July 1978. Applications should include a curriculum vitae, reprints, and three letters of recommendation with a letter stating your research interests and professional goals, and should be sent to: **A. I. Caplan, Developmental Biology Center, Case Western Reserve University, Cleveland, Ohio 44106.** Inquiries are also invited.

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## Conference on Pollutants and High Risk Groups

A Conference on the Effects of Pollutants on High Risk Groups will be held on June 5 and 6, 1978 at the University of Massachusetts, Amherst, MA. The Conference will focus on identifying biological factors which predispose toxicity and/or carcinogenicity in individuals. Among the several factors considered are developmental considerations, genetic deficiencies, nutritional status, and pre-existing disease conditions. In addition, panel discussions will consider, 1) the role of high risk groups in occupational health policies and practices, 2) the role of high risk groups in the formation of environmental (community) and occupational health standards. Invited participants in alphabetical order include:

Roy Albert N.Y.U.	Lorin Kerr United Mine Workers	Lynne Reid Children's Hospital Boston, MA
Nicholas Ashford MIT	Kaye Kilburn N.Y.U.	Jerry Rice NCI
Delbert Barth EPA	D. Jack Kilian Dow Chemical	John Sheehan United Steel Workers
Louis Beliczky United Rubber Workers	Paul Kotin Johns Manville	Carl Shy University of North Carolina
Michael Bennett Boston University	Richard Kouri Microbiological Assoc.	Frances Silverman Gage Research Institute Toronto
Eula Bingham OSHA	Orville Levander U.S. Dept. Agriculture	M.R. Spivey Fox FDA
Edward Calabrese University of Massachusetts	Gerald Lower University of Wisconsin	Richard Stewart Medical College of Wisconsin
Morton Corn University of Pittsburgh	George Lucier NIEHS	Robert Tuthill University of Massachusetts
Bertram Dinman Alcoa	Katherine Mahaffey FDA	Michael Utidjian Equitable Environmen- tal Health, Inc.
Robert Dixon NIEHS	Edward McCabe University of Wisconsin	G. von Nieding Federal Republic of Germany
M.A. El Batawi WHO	Daniel Menzel Duke University	V.B. Vouk WHO
Hugh Evans Brooklyn Jewish Hos- pital	Paul Nettesheim Oakridge National Lab.	Joseph Wagoner OSHA
John Finklea NIOSH	Vaun Newill Exxon	
Donald Gardner EPA	David Rall NIEHS	

Examples of specific topics include:

- Immature enzyme detoxification systems (as in fetuses and neonates).
- The effects of age on immune function in terms of chemically induced cancers.
- Transplacental carcinogenicity.
- Age and sensitivity to lead toxicity.
- Serum alpha<sub>1</sub> antitrypsin deficiency and susceptibility to emphysema.
- Aryl hydrocarbon hydroxylase induction, smoking, and bronchogenic carcinoma.
- Genetic susceptibility to aromatic amine induced bladder cancer.
- Vitamin A deficiency and susceptibility to respiratory cancer.
- Vitamin E and oxidant stress.
- Lead toxicity and nutritional deficiencies.
- Heart disease and carbon monoxide.
- Asthma and respiratory irritants.
- The effects of NO<sub>2</sub> on bronchitics

For further information concerning attendance at the Conference, please contact Edward J. Calabrese, Ph.D., Conference Director, Division of Public Health, University of Massachusetts, Amherst, MA 01003.

## POSITIONS OPEN

The Department of Psychiatry and Behavioral Sciences of the University of Louisville School of Medicine has an opening for a **CHILD PSYCHIATRIST** at the assistant professor or associate professor level in the Child Psychiatric Services. This position is for assistant director or director of an acute, 8 to 10 bed inpatient child psychiatric service and team leader of an active outpatient child guidance clinic. Duties will include teaching medical and other students, supervising residents and child fellows, working directly with inpatients and engaging in research. Candidate will have opportunity to be involved in part-time private practice. The salary range is \$32,000 to \$38,000 plus fringe benefits. Please submit curriculum vitae to: **Mohammad Shafii, M.D., Professor of Psychiatry and Director of Child Psychiatric Services, University of Louisville School of Medicine, 200 East Chestnut Street, Louisville, Ky. 40202.** *An Equal Opportunity/Affirmative Action Employer.*

### DIRECTOR OF HUMAN PERFORMANCE LABORATORY

M.D. to direct and expand program now under way at Oral Roberts University. Unique opportunity in an institution where all students and faculty participate in physical activity on a regular basis. Experience and qualifications in exercise physiology, cardiology, or pulmonary medicine preferred. Academic appointment in Medical School Physiology Department, with possibility of joint appointment in clinical department at some later date. Position available immediately.

Interested candidates contact: **Dr. E. B. Brown, Jr., Chairman, Department of Physiology, Oral Roberts University, Tulsa, Oklahoma 74171.** *Affirmative Action/Equal Opportunity Employer.*

### DIRECTOR, PROGRAM IN HUMAN SEXUALITY

University of Minnesota Medical School. Candidates wanted at once, M.D. or Ph.D. Contact: **John T. Kelly, M.D., Chairman, Search Committee, University of Minnesota, Department of Family Practice, Box 381 Mayo, 420 Delaware Street, SE, Minneapolis, Minnesota 55455.**

## Combustion Engineer

MIT has an opening for a PhD in Chemical or Mechanical Engineering to do research involving turbulent combustion. Techniques include laser doppler anemometry, temperature, species concentration mapping and noise emission measurements.

Applicant should have at least 3 years postdoctoral experience (some industrial) and be familiar with applications of laser diagnostics; noise and pollutant emission measurements from flames.

Please submit resume:

MIT Personnel Office  
400 Main Street  
Cambridge, MA 02139  
Attn: Job No. R77-170

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## POSITIONS OPEN

### CYTOGENETICS TECHNOLOGIST

Experience in cell culture, banding, and photomicrography.

**Department of Medical Genetics  
Indiana University  
Indianapolis, Indiana 46202**

### DIVISION DIRECTOR SOUGHT FOR DIVISION OF MATERIALS RESEARCH

NSF's Directorate for Mathematical and Physical Sciences and Engineering is seeking qualified applicants for the position of director, Division of Materials Research. The position is exempted from the competitive Civil Service and is equivalent to a GS-17 position. Applicants should have a Ph.D. or equivalent in chemistry, physics, materials science, or engineering and should possess administrative and managerial experience relative to research and development activities of substantial magnitude. Individuals able to take a 1 year or more leave or absence from their current scientific or science management responsibilities would find the position both challenging and interesting. This position will become available about 1 June 1978, for a period of 12 to 18 months. Those interested should send current résumés by 1 April 1978 to: **Division of Personnel and Management, Section B, Room 212, National Science Foundation, 1800 G Street, NW, Washington, D.C. 20550.**

**DIRECTOR OF CENTER OF PUBLIC HEALTH STUDIES.** Fall 1978. Program development and administration; teaching environmental and public health courses. Doctorate in the area of environmental health science preferred. Local and/or state health department and administrative experience expected. Research experience desirable. Salary and rank dependent upon qualifications. Closing date: 1 April 1978. Provide curriculum vitae, and have three letters of recommendation sent to: **Dr. Larry Crawshaw, Chairman, Search Committee, Department of Biology, P.O. Box 751, Portland State University, Portland, Oregon 97207.** *Affirmative Action/Equal Opportunity Employer.*

**ECOLOGIST:** assistant or associate professorship, available September 1978. Duties include participation in a newly approved undergraduate program in ecology and teaching a graduate course in candidate's area of specialization. Ph.D. and postdoctoral experience required. Candidates will be expected to carry out an active research program in some area of experimental or quantitative ecology, and to seek outside research funding. Submit a curriculum vitae, three letters of recommendation, copies or recent publications, and a summary or future research plans to: **Chairman, Ecology Search Committee, Faculty of Biological Sciences, Southern Illinois University, Edwardsville, Ill. 62026.** Deadline for applications: 1 April 1978. *An Equal Opportunity/Affirmative Action Employer, working to meet special needs of handicapped persons.*

**DEPARTMENT HEAD.** Multidisciplinary department consisting of history, philosophy of technology and science, political science, and sociology. Ph.D. in one of these disciplines required. The chairperson is expected to teach and engage in research in addition to departmental administration. Evidence of scholarly achievement and administrative capability essential. Preference will be given to candidates with some previous experience in teaching, research, or administration in a multidisciplinary setting. Interested parties should send curriculum vitae to: **Dr. Melvin Kranzberg, Department of Social Sciences, Georgia Institute of Technology, Atlanta, Ga. 30332.** *An Equal Opportunity/Affirmative Action Employer.*

### MEMBRANE BIOCHEMIST

Postdoctoral research position for an individual with training or interests in membrane biochemistry and membrane receptors. Research on biochemistry of taste and olfaction in a unique interdisciplinary research institute. Send curriculum vitae and names of three references to: **Dr. Robert H. Cagan, Monell Chemical Senses Center, University of Pennsylvania, 3500 Market Street, Philadelphia, Pa. 19104.** *An Equal Opportunity Employer.*

## POSITIONS OPEN

Person with M.S. or Ph.D. and teaching and professional experience to teach **ENVIRONMENTAL ASSESSMENT** at William James College, a college of 700 students near Grand Rapids, Michigan, on the campus of Grand Valley State Colleges (GVSC). This full-time position begins September 1978. Duties are teaching a variety of courses integrating natural resources management, impact assessment, and environmental planning. Several courses involve community projects and require extensive field analyses. Applicants must have experience in aquatic and terrestrial ecology, resource management, environmental planning, and impact assessment. Experience in coordination of multidisciplinary studies, preparation of technical reports, and public interaction is also required. Salary: \$11,000 to \$24,500. Send résumé to: **Dr. John MacTavish, Urban and Environmental Studies, William James College, Grand Valley State Colleges, Allendale, Michigan 49401.** *GVSC is an Equal Opportunity/Affirmative Action Institution.*

### FLORIDA INSTITUTE OF TECHNOLOGY

Applications are invited for permanent faculty positions in geophysics, geochemistry (marine), chemical oceanography, physical-meteorological oceanography. Appointees will be expected to teach, conduct research, and direct M.S. and Ph.D. theses. The department, located in a new building, operates estuarine, oceanic, and shipboard facilities. Ph.D. required. Rank and salary open. Send résumé to: **Head, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, Melbourne, Fla. 32901; telephone: 305-723-3701.** *An Equal Opportunity Employer.*

The Department of Pharmacology, University of North Carolina, Chapel Hill, invites application for two **FACULTY POSITIONS**, one at the assistant professor level and one at the level of associate professor. Applicants are expected to have appropriate postdoctoral training and demonstrable originality and productivity in research. Applicants for the position of associate professor should have developed a productive, independent research program which can be continued in this position. Preference will be given to applicants whose research interests and experience are in the field of neuropharmacology. Send curriculum vitae, statement of research plans, and names of three references to: **Dr. John Perkins, Department of Pharmacology, University of North Carolina at Chapel Hill, School of Medicine, Chapel Hill, North Carolina 27514.** *The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.*

**TWO FACULTY POSITIONS.** Appointment as visiting assistant or visiting associate professor depending upon qualifications for academic year 1978-1979. Salary competitive. Subsequent tenure-track appointment possible.

**MOLECULAR GENETICIST.** Strong background in genetics and biochemistry required. Biochemical approach to genetics research. Postdoctoral experience desirable. Desire to interact with ongoing research in comparative biochemistry of steroid biosynthesis essential.

**INVERTEBRATE PHYSIOLOGIST.** Strong background in zoology and biochemistry. Postdoctoral experience desirable. Desire to interact with ongoing departmental research in biochemistry and physiology essential. Send résumés and addresses of three references to: **J. W. A. Burley, Ph.D., Head, Department of Biological Sciences, Drexel University, Philadelphia, Pa. 19104.** *Equal Opportunity/Affirmative Action Employer.*

### UNIVERSITY OF SOUTHERN CALIFORNIA (USC) ORE PETROLOGIST

The Department of Geological Sciences invites applications for a possible opening in ore petrology beginning September 1978, at the assistant professor level. Applicant must hold Ph.D. and be field oriented with expertise in metamorphic or igneous petrology and high-temperature geochemistry. Additional background in one or more of the following areas is desirable, but not required: structural geology, geothermal and other energy resources, applied geophysics, and environmental or engineering geology. Appointee will be expected to develop a teaching and research program in economic geology and develop cooperative relationships with the mineral industry. Please send résumés, including three references, to: **Dr. Gregory A. Davis, Chairman, Department of Geological Sciences, University of Southern California, Los Angeles, California 90007.** *USC is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

**ENERGY POLICY.** Assistant professor or possibly higher position available on a tenure-track in the interdisciplinary Graduate Group in Energy and Resources, University of California, Berkeley. Candidate should be working currently as a social scientist with strengths both in the economic and policy aspects of energy problems. A Ph.D. in a social science field is strongly preferred, with additional experience desirable. The candidate should have an identification with, and clear commitment to, interdisciplinary work. Send curriculum vitae, names of references, and supporting material to: **Search Committee, Energy and Resources Group, Room 100, Building T-4, University of California, Berkeley, Calif. 94720.**

*The University of California is an Affirmative Action/Equal Opportunity Employer. Women and minority applicants are encouraged to apply.*

**MOLECULAR BIOLOGIST/GENETICIST.** Sabbatical replacement position for 1978-1979 academic year. Assistant or associate professor to teach undergraduate courses in molecular biology and genetics, and to participate in introductory courses. Effective September 1978, contingent on state funding. Teaching or postdoctoral experience preferred. Submit curriculum vitae, transcripts, and three letters of recommendation by 31 March 1978, to: **Faculty Search Secretary, College of Arts, Sciences and Letters, The University of Michigan-Dearborn, Dearborn, Michigan 48128.** A non-discriminatory, Affirmative Action, Title IX Employer.

**POSTDOCTORAL FELLOW:** position available, summer 1978. Research will center on the isolation and purification of human tumor associated antigens and other biological markers from several sources. Interested candidates with strong interests and experience in the area of protein chemistry/immunology are encouraged to send their curriculum vitae and the names of three references. Publications in this area would be highly advantageous. Our department emphasizes progressive and innovative research in immunology and tissue culture and is part of a large upper midwestern university. Salary approximately \$12,000 per year with position as assistant professor available at conclusion of fellowship. **Box 57, SCIENCE.**

## POSITIONS OPEN

**GEOLOGICAL OCEANOGRAPHER** wanted for tenure-track position at assistant or associate professor level beginning fall 1978. Ph.D. required. Responsibilities include teaching and research. Interest in Monterey Submarine Canyon desirable. Résumé and names of three references should be sent by 15 March to: **John H. Martin, Moss Landing Marine Labs, Moss Landing, Calif. 95039.** *The California State University is an Equal Opportunity/Affirmative Action Employer.*

**OCEANOGRAPHY:** instructor or assistant professor. \$12,500 to \$13,500 for 9 months. Applications are invited in any oceanographic specialty except biology. Renewable contract begins September 1978. Send résumé to:

**Box 59, SCIENCE**

### PHARMACOLOGIST DEPARTMENT OF OPHTHALMOLOGY COLUMBIA UNIVERSITY

Position available for pharmacologist with background in prostaglandin research. Extensive bioassay experience essential. Candidate should possess ability to develop own program on the role of prostaglandin in the normal and diseased eye. Full-time position at research associate level. Send curriculum vitae and names of references to: **Dr. Kenneth E. Eakins, Department of Ophthalmology, Division of Eye Research, 630 West 168 Street, New York, N.Y. 10032.** *An Affirmative Action/Equal Opportunity Employer.*

### PHYSIOLOGY/NEUROLOGY

A full-time position to teach courses in general physiology and neurology will be available 1 July 1978. Applicants should have an advanced degree in physiology or anatomy and have a strong commitment to teaching and research. Please send curriculum vitae to: **Dr. Douglas H. Poorman, Dean, Southern California College of Optometry (SCCO), 2001 Associated Road, Fullerton, California 92631.** *SCCO is an Equal Opportunity Employer, M/F.*

## POSITIONS OPEN

**PHYSIOLOGISTS** with a Ph.D. and/or M.D. and postdoctoral training are invited to apply for a faculty position in physiology, in the Faculty of Medicine, Memorial University of Newfoundland. The position is envisaged to be at the associate level, although the rank is open to negotiation. The duties include contributing to the teaching of physiology in an integrated medical curriculum as well as some physiology teaching to nursing and science students. The successful candidate should preferably have experience in teaching human and whole animal oriented mammalian physiology and would be expected to have or develop a research program. A strong background in cardiovascular/respiratory and/or renal/body fluids physiology would fit in well with our program. The Faculty of Medicine has recently expanded its facilities into a new Health Science Center which is a part of the Memorial University Campus and will shortly also include the St. John's General Hospital. The salary will be commensurate with experience and qualifications and the position is available immediately or by negotiation. Applications, including curriculum vitae and the names and addresses of three references, should be sent to: **Dr. C. R. Trigg, Chairman, Physiology Search Committee, Faculty of Medicine, Memorial University, St. John's, Newfoundland, Canada A1C 5S7.** The application deadline is 15 April 1978.

**POSTDOCTORAL POSITION** available immediately. Research in molecular mechanisms of gene control and recombination in bacteria and their viruses. Experience in bacterial and phage genetics, or nucleic acid sequencing, or both, is essential. Send résumé and references to: **Gerald R. Smith, Institute of Molecular Biology, University of Oregon, Eugene, Oregon 97403.** *Equal Opportunity/Affirmative Action Employer.*

One **POSTDOCTORAL POSITION** is open in the Department of Nutrition at the Massachusetts Institute of Technology. The research program deals with the activation of carcinogens in isolated perfused organs. Candidates should be non-smokers and preferably have some basic surgical skills and experience in chromatographic separations (HPLC). For information contact: **Dr. H. Brunengraber** at 617-253-6783.

The National Health and Medical Research Council of Australia invites applications for a

### RESEARCH FELLOWSHIP IN ALLERGIC DISEASES

Applications are invited from investigators to pursue original research into the purification and characterisation of important allergens in the Australian environment, and their relationship to the mechanisms of allergic disease. Applicants should have experience in the separation and characterisation of proteins and/or carbohydrates, and an interest in the field of immediate hypersensitivity. A knowledge of immunological techniques is desirable.

Suitably qualified medical and non-medical graduates will be considered. Graduates from overseas should be eligible for permanent residence status in Australia. Appointments in the first instance will be for a period of five years with a review after three years and the possibility of renewal. Two years' notice will be given prior to termination of the appointment.

It is expected that the successful applicant will take up duty in early 1979.

Salary will be negotiable, but will be equivalent to a Senior Lecturer or higher in Australian universities.

The successful applicant will work in an established unit within Australia with suitable clinical and research facilities.

The choice of the unit will take into account the wishes of the appointee but assistance in this matter may be provided by the Council. Final negotiations with the Institution concerned will be a matter for the Council.

For detailed information and application forms, applicants should write to—

**The Scientific Attache,  
Australian Embassy,  
1601 Massachusetts Ave.,  
N.W. Washington D.C. 20036 U.S.A.**

Applications close:

31 March 1978

## Pharmacology Department Head

Boehringer Ingelheim, Ltd. is a multi-national ethical pharmaceutical firm located in Ridgefield, Conn. A new research facility is currently under construction, to be completed in 1978.

A challenging opportunity exists to head our department of Pharmacology. The successful candidate should have:

1. M.D., Ph.D. or DVM, with broad based pharmacological training.
2. A proven record in personal research (pharmacological research experience desirable).
3. Demonstrable leadership qualities. The Department Head will supervise the work of three additional pharmacological PhDs and their staffs (approximately 25 people), as well as coordinate activities with other departments.

Boehringer Ingelheim offers an excellent salary and benefits package, including major medical, life insurance, investment savings, pension plan, and a unique vacation benefit.

Interested and qualified applicants only should send resume and salary history to: **Mr. R. E. Lindstrom**

**Boehringer  
Ingelheim**



90 East Ridge, P.O. Box 368  
Ridgefield, Conn. 06877  
An Equal Opportunity Employer M/F



## POSITIONS OPEN

### PLANT PHYSIOLOGIST, PH.D.

Plant physiologist to teach courses in general botany and plant physiology. Experience in algal physiology is highly desirable. Tenure-track position. Submit résumé, two references, transcripts, and supporting materials by 31 March to: **V. A. Thiesfeld, Department of Biology, University of Wisconsin-Stevens Point, Stevens Point, Wis. 54481. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITIONS (2) INSECT PHYSIOLOGY.** Study endocrine control of larval diapause and development. (i) Cytochemistry, fine structure of neuroendocrine system; (ii) Biochemistry: hormones, tissue metabolism. Twelve-month appointments beginning spring 1978 (\$11,500 to \$13,000). Send résumé and names of three references by 15 March to: **Dr. G. M. Chippendale, Entomology Department, 1-87 Agriculture Building, University of Missouri, Columbia, Missouri 65201. Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available 1 March 1978 for research in breast-epithelial-cell-specific antigens. Recent Ph.D. with background in membrane research, immunology, cell biology preferred. Applicant should send résumé, including brief statement of research experience, and names of references to: **Roberto L. Ceriani, M.D., Ph.D., Bruce Lyon Memorial Research Laboratory, Children's Hospital Medical Center, 51 and Grove Streets, Oakland, California 94609.**

**POSTDOCTORAL POSITION** available to Ph.D. or M.D. 1 July 1978 for research in electrophysiological and behavioral studies of visual development in human infants. Includes opportunity to do clinical research with infants and young children, if desired. Salary: \$10,000 to \$12,000 plus fringe benefits. Send curriculum vitae to: **Samuel Sokol, Ph.D., Department of Ophthalmology, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111. Equal Opportunity Employer, M/F.**

**POSTDOCTORAL POSITIONS IN BIOCHEMISTRY** available immediately for research in nucleic acid enzymology and developmental immunology. Broad background in biochemistry and molecular biology desirable. Please send curriculum vitae and references to: **Vera T. Bumbak, Chief, Personnel/Manpower Division, Uniformed Services University of the Health Sciences (USUHS), 4301 Jones Bridge Road, Bethesda, Maryland 20814. USUHS is an Equal Opportunity Employer.**

Baylor College of Medicine seeks a recent Ph.D. in biochemistry for a **POSTDOCTORAL RESEARCH APPOINTMENT.** Should have experience in enzyme purification and characterization. Starting salary from \$10,000 per year depending upon experience. Available immediately. Reply with curriculum vitae to: **D. Y. Graham, Department of Medicine, Baylor College of Medicine, Houston, Texas 77030.**

*An Equal Opportunity Employer*

### PROFESSOR, SENIOR LEVEL PHYSICAL/BIOPHYSICAL CHEMISTRY UNIVERSITY OF CALIFORNIA RIVERSIDE

The Department of Chemistry has a position for a distinguished person as professor of chemistry, effective July 1978, or later. Candidates should be internationally recognized for current research in the forefront of physical chemistry. Preference will be given to biophysical candidates who complement present research offerings (there is a potential for joint appointment in biochemistry, if appropriate). Candidates must have demonstrated ability to make a significant contributions to the undergraduate and graduate instructional programs. We are especially interested in receiving applications from women and minority group candidates. Requests for confidentiality of applications will be honored. Submit curriculum vitae and list of publications to:

**M. Gibian, Chairman, Search Committee  
Department of Chemistry  
University of California  
Riverside, Calif. 92521**

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE MOLECULAR BIOLOGY

Research position available in area of ribosomes, translational control, and electron microscopy of nucleic acids including recombinant DNA in new and expanding medical school. Opportunity for teaching medical students if desired. Recent Ph.D. in microbiology, molecular biology, or biochemistry desired. Send curriculum vitae and names of references to: **Dr. Garret Ihler, Professor and Head, Department of Medical Biochemistry, Texas A&M College of Medicine, College Station, Texas 77843. An Equal Opportunity/Affirmative Action Employer.**

*Equal Employment Opportunity through Affirmative Action*

### POSTDOCTORAL RESEARCH FELLOW

to work on localization of purified protein with immunologic-microscopic techniques or to study protein synthesis by lung cell culture techniques. Please send curriculum vitae to: **Dr. Barry L. Fanburg, Pulmonary Division, New England Medical Center Hospital, 171 Harrison Avenue, Boston, Mass. 02111.**

### POSTDOCTORAL RESEARCH PATHOLOGIST

Position now available for M.D., D.V.M., or Ph.D. to work in chemical carcinogenesis. Send résumé and references to:

**Dr. B. Toth  
The Eppley Institute for Research in Cancer  
University of Nebraska Medical Center  
42 and Dewey Avenue  
Omaha, Nebraska 68105**

*Equal Opportunity/Affirmative Action Employer, M/F/H*

### PROFESSOR AND DEPARTMENT HEAD

The Department of Agronomy at New Mexico State University is seeking a new department head. The prospective candidate should have a Ph.D. degree and a minimum of 10 years experience in teaching, research, or administration. Basic duties and responsibilities involve administration of undergraduate and graduate instruction, and agronomic research. Deadline for application will be 15 April 1978. Position is available 1 July 1978. Direct applications or nominations to: **Dr. Peter J. Wierenga, Chairman, Search Committee, Agronomy Department, New Mexico State University, Las Cruces, New Mexico 88003. Telephone: 505-646-2028. An Equal Opportunity/Affirmative Action Employer.**

Applications are invited for positions in **REPRODUCTIVE BIOLOGY** as Mellon Foundation Scholars in the Laboratory of Human Reproduction and Reproductive Biology, Harvard Medical School. Mellon Scholars will be considered for a primary faculty appointment up to assistant professor in one of the following departments: anatomy, biological chemistry, physiology, pharmacology, pathology, and obstetrics and gynecology. Applicant must be willing to pursue his/her objectives from a multidisciplinary point of view. Demonstrated commitment and excellence in research, and teaching are essential, and 2 years of postdoctoral research experience are desirable. Send complete curriculum vitae including a statement of research interests and names of at least three references to: **Kenneth J. Ryan, M.D., Director, Laboratory of Human Reproduction and Reproductive Biology, Harvard Medical School, 45 Shattuck Street, Boston, Mass. 02115.** Closing date for applications is 1 April 1978. *An Affirmative Action/Equal Opportunity Employer, M/F.*

**REPRODUCTIVE OR DEVELOPMENTAL BIOLOGIST-GENETICIST** for research faculty position in Center for Inherited Diseases of medical school with location in Obstetrics and Gynecology Department. Prefer scientist with proven independent research experience. Extensive facilities and opportunities for interaction in related areas of medical and basic biology. Please apply to **Dr. A. G. Motulsky, Director, Center for Inherited Diseases, University of Washington School of Medicine, Seattle, Wash. 98195.**

*An Equal Opportunity/Affirmative Action Employer*

**RESEARCH ASSOCIATE.** Postdoctoral research position in chemical carcinogenesis. Involves multidisciplinary approach to biochemical and biological mechanisms of tumor induction. Send résumé and statement of research interests to: **Charles M. King, Ph.D., Department of Chemical Carcinogenesis, Michigan Cancer Foundation, 110 East Warren, Detroit, Mich. 48201.**

## POSITIONS OPEN

The Harvard School of Public Health is seeking **TWO** tenured **PROFESSORS** as follows:

### PROFESSOR IN HEALTH POLICY AND MANAGEMENT

To have a major role in directing the school's activities in the policy and management areas and in related teaching and research. Interest required in public policy issues in health area, particularly health services and environmental and occupational causes of ill health. Familiarity with management and regulatory questions in public and non-profit sectors desirable.

Advanced degree with minimum of 5 years of professional experience at post-terminal degree level required, as is demonstrated excellence in teaching and research.

### PROFESSOR OF HEALTH ECONOMICS

To have a major role in the school's teaching and research activities in the health policy and management area. Facility with formal and non-formal analytic methods required, as is interest in applied and policy oriented research in health areas.

Ph.D. in economics with minimum of 5 years of professional experience at the postdoctoral level is required, as is demonstrated excellence in teaching and research.

For full job descriptions, or for submission of curriculum vitae, please write to Search Committee chairman:

**Dr. C. Peter Timmer  
665 Huntington Avenue  
Boston, Massachusetts 02115**

*Harvard is an Equal Employment Employer with an Affirmative Action Program.*

### RESEARCH ASSOCIATE

An immediate opening is available for an electron microscopist in a urology research group concerned with urologic oncology. The research emphasis will be to identify sequential morphological changes which occur in prostatic adenocarcinoma cells during the course of the disease and during therapeutic manipulation. Applicant should have experience with relevant TEM methodology. Send curriculum vitae and names of two references to: **Dr. Don D. Mickey, Urology Research, Box 3062, Duke University Medical Center, Durham, North Carolina 27710. An Equal Opportunity/Affirmative Action Employer.**

### RESEARCH ASSOCIATE

Protein biochemist or immunochemist, preferably with experience in preparative isolation of cell surface antigens, in addition to protein fractionation. Responsible for the development of specific antisera that will selectively deplete inflammatory cell populations in vivo. Start by fall 1978. Salary negotiable in the range of \$14,000 per annum. Southeastern medical school. Reply by 10 March with curriculum vitae, list of publications, and names of three references to: **Box 58, SCIENCE.**

**RESEARCH ASSOCIATE** in ecological leaf anatomy. Requires a B.S. or M.S. in biology and experience in preparation and microscopy of plant material. Electron microscopy experience desirable. Position available for approximately 12 months at \$9,000 to \$10,000 yearly. Apply by 15 March 1978, to: **D. F. Parkhurst, School of Public and Environmental Affairs, Indiana University, 400 East 7 Street, Bloomington, Ind. 47401.**

*An Equal Employment/Affirmative Action Employer*

### RESEARCH STAFF POSITION

The MIT Research Laboratory of Electronics seeks applications from physicists or engineers to do research in the development of techniques for fabricating submicrometer structures, and research cooperation with faculty, staff, and students on application of submicrometer structures in microelectronics, integrated optics, X-ray lenses, liquid-crystal alignment, radiation detectors, thin film growth and superconducting devices. Submicrometer fabrication techniques to be developed include: holographic lithography, X-ray lithography, STEM lithography, ion beam etching, reactive ion etching and thin film growth.

Special qualifications: Ph.D. in physics, electrical engineering, materials science, or equivalent in applicable experience. Must have a broad technical background and a flair for inventive application of this background to the solution of problems.

Please submit résumé to: **MIT Personnel Office, 400 Main Street, Cambridge, MA 02139. Attn: Job No. R78-3. An Equal Opportunity/Affirmative Action Employer.**

**DIRECTOR  
BUREAU OF  
VETERINARY MEDICINE (BVM)  
FOOD AND DRUG ADMINISTRATION  
(FDA)**

The Food and Drug Administration is seeking candidates for the position of director of the Bureau of Veterinary Medicine. The bureau director is the top expert and final authority for the agency in all matters concerning veterinary medicine. Under the general administrative supervision of the commissioner of FDA, the director is responsible for developing veterinary medical policy with respect to the safety and efficacy of animal drugs, feed additives, and veterinary devices. The bureau regulates animal food and drugs affecting 990 animal drug manufacturers and 3.5 billion animals.

FDA is looking for candidates of recognized scientific distinction and administrative ability who now enjoy, or have the potential to earn, respect in government, academic, industrial and consumer sectors. Candidates with an advanced degree (such as D.V.M., Ph.D., or M.D.) will be considered. This is a Civil Service position that pays up to \$47,500 per year. U.S. citizenship is required.

The closing date for applications is 15 March 1978. Send curriculum vitae or Standard Form 171 (Personal Qualifications Statement) and bibliography to:

**HEW/Food and Drug Administration  
BVM Search Committee  
c/o Patricia Sykes  
Room 4B-42, 5600 Fishers Lane  
Rockville, Maryland 20857**

*FDA/An Equal Opportunity Employer*

**FACULTY POSITIONS  
College of Medicine, King Faisal University  
Dammam, Saudi Arabia**

Applications invited from qualified men and women in:

Biology	Biochemistry
Chemistry	Hematology
Physics	Biostatistics
Anatomy	Microbiology
Human Physiology	Parasitology
Pathology	Pharmacology
Epidemiology	General Surgery
Community Medicine	Internal Medicine

Doctorate or equivalent degree required. Language of instruction is English. Positions available starting September 1978; interviews scheduled with the dean in the United States and Great Britain early in 1978.

Salary ranges (monthly salary in Saudi riyals or approximate annual equivalent in U.S. dollars)—professor: SR6,000 to 6,600 or \$20,300 to \$22,300; associate professor: SR4,800 to 5,800 or \$16,300 to \$19,600; and assistant professor: SR3,600 to 4,600 or \$12,200 to \$15,600.

(M.D. degree commands a higher salary, up to 50 percent if a clinical as well as academic appointment held.)

Free furnished accommodations. Airfare to and from Saudi Arabia once a year plus a 45- to 60-day holiday. No Saudi income tax.

Send complete curriculum vitae plus addresses and telephone numbers of three references to:

**Mohammed T. Altorki, M.D., MRCP  
Dean of the Medical Faculty  
King Faisal University  
c/o Saudi Arabian Educational Mission  
2223 West Loop South, Suite 400  
Houston, Texas 77027**

**Mohammed T. Altorki, M.D., MRCP  
Dean of the Medical Faculty  
King Faisal University  
P.O. Box 9  
Isleworth, Middlesex TW7 4LZ  
England**

Specify dates of teaching appointments and availability.

**STAFF POSITIONS  
FOR  
MARINE POLICY  
STUDIES**

Applications are invited for two staff positions at the rank of Research Associate in the Woods Hole Oceanographic Institution's program on Marine Policy and Ocean Management. Successful applicants will be expected to engage in applied research projects related to man's uses of the ocean. These projects will be both self-initiated and collaborative with post-doctoral fellows and members of the Institution's professional staff. Present research projects within the Program includes ones in aquaculture, marine pollution, coastal zone management, fisheries management, marine technology transfer, nuclear waste disposal, and the utilization of salt marshes.

Applicants should possess the doctoral degree (or equivalent) in a social science, law, engineering or management, and should have had at least 3 years' additional experience in policy-related research. Appointments will be made for an initial term of two years. Salary will be commensurate with experience. Inquiries and requests for application forms should be addressed to:

**Dr. R. W. Morse  
Associate Director**

**WOODS HOLE  
OCEANOGRAPHIC  
INSTITUTION**

Woods Hole, MA 02543

**The application deadline is April 1, 1978**

*An equal opportunity employer M/F*



**NEW ADVANCED COURSES IN BIOLOGICAL SCIENCES AT THE  
HOPKINS MARINE STATION  
SUMMER 1978**

The Hopkins Marine Station is adding the following three courses to its regular Summer Session curriculum in 1978:

**Developmental Biology. D. Epel and L. Jaffe. 19 June to 22 July.**

An in-depth lecture, discussion, and laboratory examination of the modes and principles of embryonic development, especially as learned from the early development of marine animals and plants. Topics emphasized utilize the expertise of visiting faculty. Major emphasis in 1978 will be oocyte maturation, fertilization, embryonic determination and the regulation of these processes by ions. Other phenomena examined will include oogenesis, cleavage, gastrulation, and morphogenetic movements. In the laboratory students carry out original experiments (using current techniques) that relate to the lecture material.

Lecturers this summer will include: M. Bernfield and N. Wessells (morphogenesis), Lionel Jaffe and R. Hinegardner (determination), W. Briggs (plant development), C. Lambert and R. Elinson (reproductive biology), K. Aketa, T. Aune, D. Nishioka, R. Steinhardt, and V. Vacquier (fertilization), D. Mazia (cell division), and R. Schimke, E. Davidson, L. Kedes, and F. Wilt (gene action).

**Experimental Neurobiology. S. Thompson and R. McCam. 24 July to 26 August.**

An intensive laboratory and lecture course in cellular and organismal neurophysiology. Lectures emphasize: (i) cellular processes such as membrane excitability, synaptic transmission, neuronal metabolism, and neuropharmacology, and (ii) the organization of sensory, motor, and integrative systems. Supplemental lectures deal with modern techniques and data analysis. The laboratory is the center of the course. It offers experience with several marine invertebrate preparations and with a wide range of investigative techniques.

**Biological Clocks. C. Pittendrigh. 19 June to 22 July.**

The comparative physiology of innate circa-dian, circa-tidal, circa-lunar, and circ-annual rhythmicity in unicellulars, plants and animals. The oscillatory pacemakers that drive these rhythms function as "clocks" which the organism uses: (i) to measure environmental time, and (ii) to organize an internal temporal order in its physiological processes. The circadian system in *Drosophila* is analyzed in detail as a model that clarifies a wide range of phenomena in other organisms including man. Specific attention is paid to: (i) the role of circadian clocks in animal navigation and the time-measurement in photoperiodic phenomena, (ii) recent progress in the localization of circadian pacemakers in the nervous system, and (iii) current knowledge of the genetics and molecular basis of the pacemaker.

For more information and an application form please write to: **The Academic Secretary, The Hopkins Marine Station, Pacific Grove, California 93950.** Applications for the Summer Session close on 31 March 1978.

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and Subscriptions**

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- **Mail to:** Membership and Subscription Records, AAAS, 1515 Massachusetts Ave., NW, Washington, D.C. 20005.

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  - ☐ \$28 USA ☐ \$38 Canada, PUAS ☐ \$41 Foreign
  - ☐ \$58 Air-surface delivery via Holland

- ☐ **Subscriber rates**
  - ☐ \$60 USA ☐ \$70 Canada, PUAS ☐ \$73 Foreign
  - ☐ \$90 Air-surface delivery via Holland

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**MT02**

## POSITIONS OPEN

**RESEARCH FELLOW.** Postdoctoral position available immediately for studies on biochemical aspects of the interferon system. Ph.D. in biochemistry or related subjects required. Experience in protein biosynthesis and nucleic acids highly desirable. Salary \$11,000 plus, based on experience and number of dependents. Send curriculum vitae and names of references to: **Dr. Sohan L. Gupta, Section 6144, Sloan-Kettering Institute for Cancer Research, 1275 York Avenue, New York, N.Y. 10021.** An Equal Opportunity Employer.

The Arab Development Institute in the Socialist People's Libyan Arab Jamahiriya, Tripoli, Libya, announces the availability of positions for highly qualified and experienced specialists in the following areas of research:

- 1) **INDUSTRIAL DEVELOPMENT,** and
- 2) **AGRICULTURAL DEVELOPMENT.**

All related aspects of scientific, technical, economic and social development are included.

Appointees are to be assigned to plan and to undertake scientific and integrated studies directly dealing with agricultural, industrial, and developmental processes in this country.

Factors of evaluation include: level of academic qualification, length and scope of practical experience, and willingness to relocate.

Among benefits included are: paid annual leave, travel and medical expenses, and childrens' educational assistance.

Details relative to salary and related inquiries will be furnished to those whose applications may be considered suitable. Positions for both short-term and regular contractual arrangements may be available.

If interested, please apply to either:

**Office of the Technical Counselor  
for Scientific Research  
Embassy of the Socialist People's  
Libyan Arab Jamahiriya  
1118 22 Street, NW  
Washington, D.C. 20037  
or  
Arab Development Institute  
Post Office Box 8004  
Tripoli, Libya, N. Africa**

## STANFORD MAGNETIC RESONANCE LABORATORY

**STAFF MEMBER.** Strong interest and background in electronic instrumentation. Experience with the design, repair, and modification of high resolution NMR equipment and flair for innovation. Ph.D. in physics, chemistry, or engineering required. Rank and salary dependent on qualifications. Address inquiries to: **Professor Oleg Jardetzky, Stanford Magnetic Resonance Laboratory, Stanford University, Stanford, Calif. 94305,** by 15 March 1978. An Affirmative Action/Equal Opportunity Employer.

## SURGICAL PATHOLOGIST

The Department of Pathology at the New York State College of Veterinary Medicine announces a position opening for a surgical pathologist. The successful applicant will be professionally responsible for the surgical pathology services which are offered to the clinical staff of the Veterinary Teaching Hospital, and practicing veterinarians in the state of New York and region. Experience in diagnostic light and electron microscopy is mandatory.

In addition, the successful candidate will be professionally responsible for the departmental histology laboratory, the development and coordination of clinical/pathological investigative protocols in the Veterinary Teaching Hospital, and the development of continuing education programs in the field of surgical pathology.

The successful candidate will participate in the departmental teaching and service programs, and will assume responsibility for coordinating postdoctoral training in veterinary and comparative pathology.

The position requires graduate-level research training and Board-certification by the American College of Veterinary Pathologists. Rank and salary are commensurate with experience. Interested candidates should contact directly:

**Robert M. Lewis, D.V.M.  
Chairman, Department of Pathology  
New York State College of Veterinary Medicine  
Cornell University  
Ithaca, New York 14853  
Telephone: 607-256-7662 or 2160**

*Affirmative Action/Equal Opportunity Employer*

## POSITIONS OPEN

### VETERINARY PATHOLOGIST

The Collaborative Radiological Health Laboratory (CRHL) and Department of Pathology, Colorado State University (CSU), seek applications from veterinary pathologists interested in research in an academic environment. The CRHL is a multidisciplinary research group studying long-term effects of low level radiation in beagle dogs. Primary duties involve evaluation of a variety of disease states in a large canine population. An interest in aging and carcinogenesis would be helpful. Three positions are available. Applicants for two senior pathology positions should have a D.V.M. with advanced training in pathology, preferably a Ph.D. and/or ACVP eligibility or certification. A faculty appointment in the Department of Pathology with teaching responsibilities is available. Applicants for a junior pathology position should have a D.V.M. with advanced training in pathology and ACVP eligibility. (Application deadline: 15 March 1978 or until positions are filled. Salaries negotiable. Anticipated starting date: 1 July 1978.) CSU is an Equal Opportunity/Title IX Employer. Equal Opportunity Office, 314 Student Services Building. Contact: **Stephen A. Benjamin, Director, CRHL, Department of Pathology, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, Colorado 80523.**

### VICE PRESIDENT FOR GRADUATE EDUCATION AND RESEARCH

The University of Connecticut invites applications and nominations for the position of vice president for graduate education and research. This cabinet-level officer will report to the president, and will have responsibility for coordination of all graduate and research programs and their funding throughout the University, including the Schools of Medicine and Dental Medicine. Candidates should have an earned doctorate or its equivalent, credentials suitable for a university-level professorship, and appropriate experience in graduate education and research. Candidates should send résumé by 1 March 1978 to: **Office of Vice President for Academic Affairs, Box U-86, University of Connecticut, Storrs, Connecticut 06268.** An Equal Opportunity Employer.

## GRADUATE STUDY

**GRADUATE STUDIES, DEPARTMENT OF PATHOLOGY.** A limited number of positions are available for graduate study in pathobiology for the 1978-1979 academic year. Potential research areas concentrate on the applications of morphologic, biochemical, immunological, cytochemical, and general cell biology methodology in the study of the disease process. Graduate stipends available on a competitive basis. Contact: **Dr. Harvey Bank, Department of Pathology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, S.C. 29403.**

## FELLOWSHIPS

### A POSTDOCTORAL FELLOWSHIP IN REPRODUCTIVE BIOLOGY

Is available. Applicants should be interested in the physiology and biochemistry of mammalian embryos. Apply with curriculum vitae to: **R. L. Brinster, Laboratory of Reproductive Physiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, Pennsylvania 19104.**

### FELLOWSHIPS IN HEALTH COMPUTER SCIENCES

Predocctoral and postdoctoral NIH fellowships for training in the application of computers to health services and other biomedical fields are available starting 1 July 1978. Candidates should have knowledge of and interest in health computer sciences; experience in health sciences is preferred but not required. Predocctoral candidates should have a master's degree in the natural or physical sciences. Postdoctoral candidates should have either an M.D. degree (training may be combined with a clinical residency) or a Ph.D. degree in the natural or physical sciences. Send inquiries and applications before 1 April 1978 to: **Dr. Lynda Ellis, Box 511 Mayo Building, University of Minnesota Medical School, Minneapolis, Minn. 55455.**

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## FELLOWSHIPS

Applications are invited for a 1-year **FELLOWSHIP** (renewable) in medical mycology with special emphasis in regulation of morphogenesis, membrane biology, host-parasite relationships, and extended training in laboratory medical mycology. Background of the applicant should include recent Ph.D. or M.D. degree with training in general mycology, microbiology, and/or biochemistry. Inquiries should be addressed to: **George S. Kobayashi, Ph.D., Department of Medicine, Division of Infectious Diseases, Box 8051, Washington University School of Medicine, St. Louis, Missouri 63110.**

### POSTDOCTORAL FELLOWSHIP AVAILABLE

Need immediately: **Postdoctoral fellow** with interest and training in biochemistry or chemistry as well as pharmacology and/or oncology. Some postdoctoral experience preferred but not required.

Research area includes investigation of the inhibition of chemical carcinogenesis by dietary antioxidants with emphasis on the possible involvement of free radical reactions in tissues which are targets for certain carcinogens. Investigation of the possibility that such reactions are inhibited by free radical scavenging properties of antioxidants. Techniques used include: (i) metabolism of labeled carcinogens in primary cell cultures from animals fed diets with and without antioxidants, (ii) studies on the possible role of dietary fat in chemical carcinogenesis, and (iii) mutagenesis assays.

Annual salary: from \$10,000 to \$11,500. Contact: **Dr. Paul B. McCay, Head, Biomembrane Research Laboratory, Oklahoma Medical Research Foundation, 825 N.E. 13 Street, Oklahoma City, Okla. 73104. Telephone: 405-235-8331, extension 370.**

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### POSTDOCTORAL FELLOWSHIPS FOR RESEARCH TRAINING IN HYPERTENSION AND CARDIOVASCULAR DISEASE

Two-year postdoctoral fellowships are available for qualified applicants with the M.D. or Ph.D. degree starting July 1978 as part of a multidisciplinary program. Possible areas for intensive research experience will include biochemical, physiological, pathological, and epidemiological approaches to studying the cardiac, renal, adrenal, and neural components of vascular regulation. For further information write to: **Dr. R. L. Soffer, Department of Biochemistry and Medicine, Cornell University Medical College, 1300 York Avenue, New York, New York 10021.**

## TRAINEESHIPS

### POSTDOCTORAL

Traineeships in interdisciplinary environmental health studies. Three NIH-supported 1- to 2-year positions, from July 1978, in research team concerned with relating environmental pollution measurements to public health. Especially encouraged are applicants with recent Ph.D. in mathematics, statistics, physics, chemistry, biology, or earth sciences wishing advanced study in atmospheric or oceanic chemical measurements and in statistical evaluation of environmental data for health related factors. Please address inquiries by 15 April to: **Professor F. W. Ley-sieffer, Department of Statistics, or to Professor J. W. Winchester, Department of Oceanography, Florida State University, Tallahassee, Fla. 32306.** An Affirmative Action/Equal Opportunity Employer.

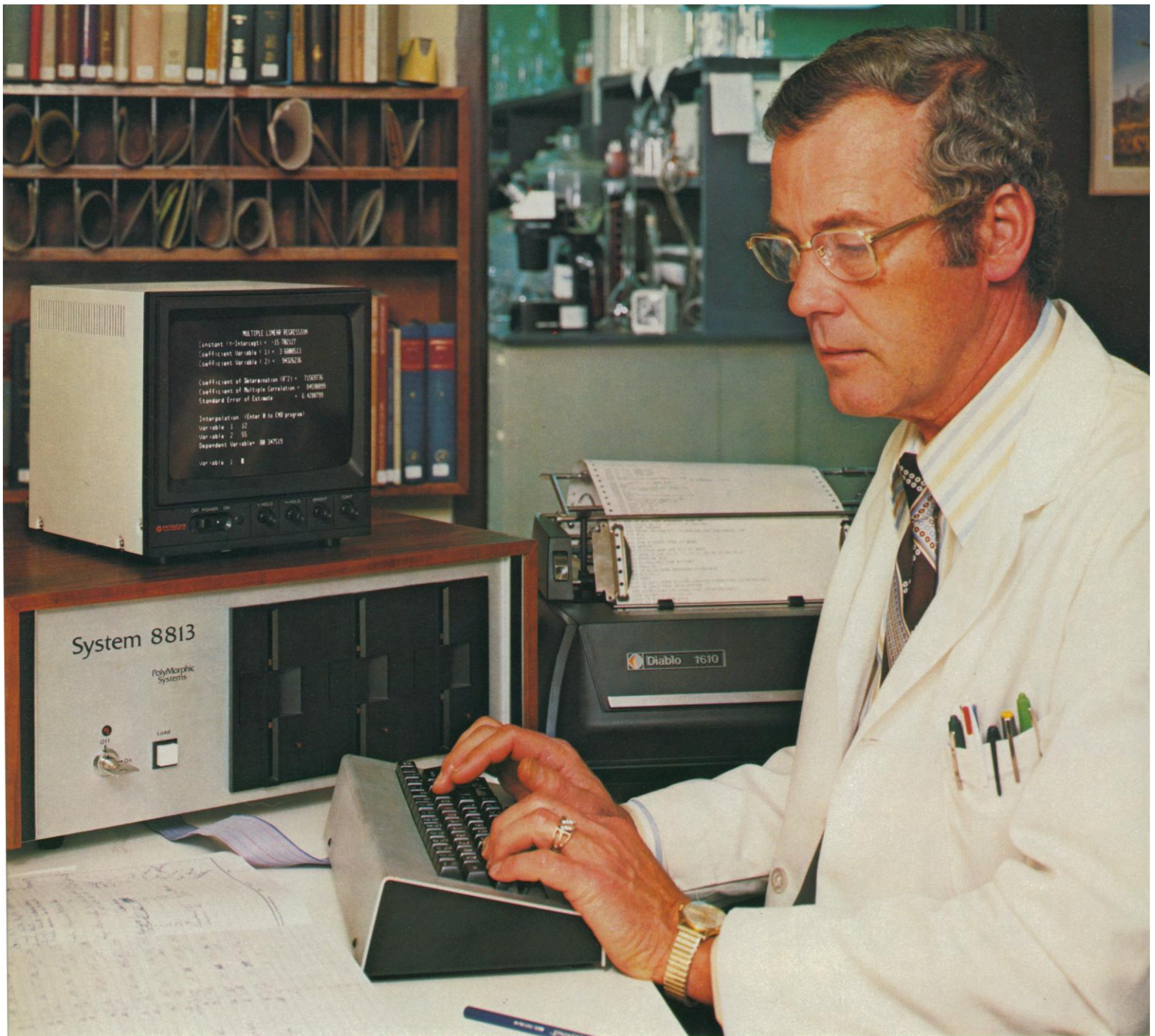
## CONGRESS

**The International Congress of Inflammation**, sponsored by the Institute of Pharmacology and Pharmacognosy of the University of Milan, will take place in Bologna (Italy) from 31 October to 4 November 1978 under the chairmanship of Professors B. Samuleson, G. Weissmann, and R. Paoletti.

The congress will be divided into the following sessions: biology, preclinical pharmacology of the anti-inflammatory agents, clinical pharmacology of the anti-inflammatory agents; special emphasis will be given to the clinical applications and side effects of anti-inflammatory agents on specific organs and systems.

For information and programs please write to: **Dr. E. Folco, F.G.L., Via Monte Napoleone, 23, 20121 Milan, Italy; telephone: 702.267 and 783.868.**





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