Glossary of Chemical Terms. Clifford A. Hampel and Gessner G. Hawley. Van Nostrand Reinhold, New York, 1976. vi, 282 pp. \$14.95.

Gravity and Levity. Alan McGlashan. Houghton Mifflin, Boston, 1976. 140 pp. \$6.95.

Growth in America. Chester L. Cooper, Ed. Greenwood, Westport, Conn., 1976. x, 262 pp., illus. \$15. Contributions to American Studies, No. 21.

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Killer Animals. Edward R. Ricciuti. Walker, New York, 1976. xii, 320 pp., illus. \$12.50.

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Method and Appraisal in the Physical Sciences. The Critical Background to Modern Science, 1800–1905. Colin Howson, Ed. Cambridge University Press, New York, 1976. viii, 344 pp. \$24.50.

Morphology and Mechanisms of Chemoreceptors. Proceedings of a symposium, Srinagar, India, October 1974. A. S. Paintal, Ed. Vallabhbhai Patel Chest Institute, University of Delhi, Delhi, 1976. xvi, 358 pp., illus. \$22.

A Natural History of Zebras. Dorcas Mac-Clintock. Pictures by Ugo Mochi. Scribner, New York, 1976. x, 134 pp. \$7.95.

Stochastic Processes with Learning Properties. Sándor Csibi. Springer-Verlag, New York, 1975. iv. 152 pp. Paper, \$11.10. International Centre for Mechanical Sciences Courses and Lectures, No. 84.

The Structure and Dynamics of Theories. Wolfgang Stegmüller. Translated from the German edition (Berlin, 1973). Springer-Verlag, New York, 1976. xviii, 286 pp. \$29.80.

Structure and Realization Problems in the Theory of Dynamical Systems. Michael Heymann. Springer-Verlag, New York, 1975. 80 pp. Paper, \$7. International Centre for Mechanical Sciences Courses and Lectures, No. 204.

Symmetry Rules for Chemical Reactions. Orbital Topology and Elementary Processes. Ralph G. Pearson. Wiley-Interscience, New York, 1976. xii, 548 pp., illus. \$24.50.

Telecommunications and the Computer. James Martin. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1976. xviii, 670 pp., illus. \$28. Prentice-Hall Series in Automatic Computation.

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Wines. Their Sensory Evaluation. Maynard A. Amerine and Edward B. Roessler. Freeman, San Francisco, 1976. xvi, 230 pp., illus. \$8.95.

17 DECEMBER 1976



Water is essential to life. The quantity of water man needs for survival varies for different cultures and economic situations—but for the great majority of the world's people, water resources are scarce and modern water supply systems nonexistent.

Because surface waters are readily contaminated by physical, chemical, and especially biological pollutants, water in many areas, instead of supporting life, brings illness and death. While there are means to control waterborne bacteria that cause typhoid epidemics, current water purification methods do not effectively remove viruses. There is clear evidence that at least one viral disease, infectious hepatitis, is transmitted by polluted waters and by shellfish grown in such waters. As population pressures increase and uncontaminated water sources become scarcer, the problem of waterborne viruses is enhanced.

The International Conference on Viruses in Water, held in Mexico City in 1974, brought leading scientists from many countries to discuss this urgent concern. The conference was sponsored by the American Public Health Association, cosponsored by the World Health Organization, Pan American Health Organization, and Government of Mexico. The book *Viruses in Water* presents data, discussions, and perspectives from these meetings. The editors served as the planning committee and as chairmen of the sessions.

The editors are: Gerald Berg, Ph.D., Environmental Protection Agency, Cincinnati, Ohio. Howard L. Bodily, Ph.D., Brigham Young University, Provo, Utah. Edwin H. Lennette, M.D., Ph.D., California Department of Public Health, Berkeley. Joseph L. Melnick, Ph.D., Baylor College of Medicine, Houston, Texas. Theodore Metcalf, Ph.D., University of New Hampshire, Durham.

What needs to be done

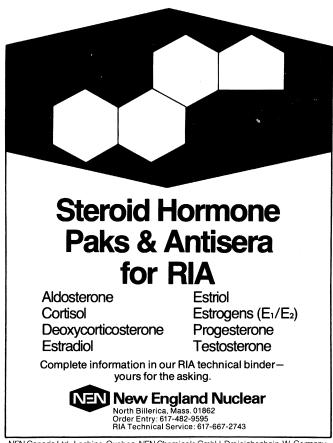
concentrations in drinking water, recreational waters, and water used for certain other purposes. Improved methods for detecting viruses in large volumes of water, and for removing them from drinking water sources and drinking water itself, must be developed and tested. The waste treatment plant must be replaced by the water refinery. This is the challenge of *Viruses in Water*.

Standards must be set for permissible virus

CONTENTS: Part I. Social Impact: Introduction, Water Needs and Usage, The Legislative Concern. Part 2. Epidemiology: Human-Associated Viruses, Animal-Associated, Minimal Infective Dose, Epidemiological Indications. Part 3. Detection Methodology: Enteric Viruses, Viruses on Solids, Systems for Detection, Virologic and Engineering Problems. Part 4. Reclamation and Disposal: Removal, Photodynamic Inactivation, Viruses in Renovated Waters, Disposal of Sludges. Part 5. Legal, Community and Geographic Problems: Legal and Regulatory Decisions and Dilemmas, Community Response to Spray Irrigation Disposal, Geographic Considerations in the Americas, in Asia. Part 6. Perspectives: Social Impact, Epidemiology, Detection Methodology, Reclamation and Disposal, Legal, Community, and Geographic Problems.

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ACAROLOGIST

The Department of Entomology at The Ohio State University, Columbus, invites applications for a fac-ulty position in acarology. Applicants should have postdoctoral experience and publications demon-strating productivity and originality in research on the biology of Acari. Preference will be given to ap-plicants with research and teaching interests in phys-iology or ecology (basic or applied). The successful candidate will be expected to establish an out-standing research program, to teach in the acarology program, and to develop undergraduate/graduate courses in the department. Appointment will be at the assistant professor level and will begin on or be-fore 1 July 1977. A complete résumé with tran-scripts, copies of publications, and names of four ref-erees should be sent to Professor Donald E. John-ston, Acarology Search Committee, Department of Entomology, The Ohio State University, 1735 Neil Av-enue, Columbus, Ohio 43210. Applications should be submitted before 28 February 1977. An Equal Opportunity/Affirmative Action Employer The Department of Entomology at The Ohio State

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AQUATIC ECOLOGIST

Position for assistant professor is open for Septem-ber 1977. Primary responsibility in teaching, re-search and graduate student advisement in limnolo-gy. This person will also teach general biology and general ecology. Ph.D. is required. Applications, in-cluding transcripts, curriculum vitae, three letters of reference and a statement of personal goals should be submitted by 15 February 1977 to: Dr. B. O. Krogstad, Chairman, Search Committee, Department of Biology University of Minnesota Duluth. Duluth. of Biology, University of Minnesota, Duluth, Duluth, Minn. 55812.

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DEPARTMENT OF ENTOMOLOGY UNIVERSITY OF CALIFORNIA, RIVERSIDE

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The University of California is an Equal Opportu-nity/Affirmative Action Employer.

ASSISTANT PROFESSORSHIP

Applications are invited for an assistant professor-ship in plant cell biology in the Department of Biol-ogy at Washington University. Applicants should have demonstrated research accomplishment, prefhave demonstrated research accomplishment, pref-erably including postdoctoral training, in the study of ultrastructural, physiological, and/or biochemical properties of plant cells, and have an interest in grad-uate and undergraduate teaching. Excellent research opportunities are available in the Division of Biology and Biomedical Sciences as well as with staff mem-bers of the Missouri Botanical Garden. Applications including a curriculum vitae, statement of research interests, and the names of three references should be sent to: Dr. V. Walbot, Department of Biology, Washington University, St. Louis, Mo. 63130. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOCHEMISTRY

ASSISTANT PROFESSOR OF BIOCHEMISTRY In conjunction with the new University of South Carolina School of Medicine, the Department of Chemistry invites applications from individuals hav-ing a Ph.D. degree who are highly qualified in any area of biochemistry. Potential candidates should have 1 to 2 years of postdoctoral experience and will be expected to show promise of developing a vigor-ous research program. The appointee will join six other biochemists in teaching medical students as well as graduate and undergraduate students in the Department. The tenurable appointment based on a 12-month academic year will be effective for Septem-ber 1977, subject to approval by the South Carolina Board of Budget and Control. Apply by submitting curriculum vitae, a short statement of projected re-search problems, and names of three references to **Professor Ronald R. Fisher, Chairman, Department** of **Chemistry, University of South Carolina, Colum-bia, South Carolina 29208.** An Equal Opportunity/Af-firmative Action Employer. firmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR—ANALYTICAL, fall 1977. The Department of Chemistry, Mississippi State University invites applications from qualified individuals dedicated to excellence in research and teaching in the area of analytical chemistry. Post-doctoral experience desirable. Subfield should be. spectroscopy, electrochemistry, other. Send ré-sumé, graduate transcript, and three letters of refer-ence to: Dr. T. H. Fisher, Department of Chemistry, Mississippi State University, Mississippi State, Miss. 39762. An Equal Opportunity/Affirmative Action Em-ployer. ployer.

DEPARTMENT OF ENTOMOLOGY UNIVERSITY OF WISCONSIN, MADISON

Two full-time (12-month) positions at the assistant professor level will be available by mid-spring 1977. The persons employed will be expected to share in the departmental teaching responsibilities and to de-velop a viable research program. We are particularly interested in individuals with one of the following specialities: (1) biological pest suppression; (ii) veteri-nary entomology; (iii) applied ecology, preferably re-lated to agronomic crop insects; and (iv) genetics. Applicants must have a genuine interest in teach-ine and proven ability to carry out research in their

Applicants must have a genuine interest in teach-ing and proven ability to carry out research in their field. Interested persons holding a recent Ph.D. de-gree should send, by 15 February 1977, a curriculum vitae, transcripts of undergraduate and graduate work, research papers, and a brief statement of re-search and teaching interests, and have four letters of recommendation sent directly to **Dr. G. M. Boush**, Chairman Department of Entomology University of Chairman, Department of Entomology, University of Wisconsin, Madison, Wisconsin 53706. An Equal Opportunity/Affirmative Action Employer

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Dr. Kenneth A. Laurence Department of Biological Sciences University of Idaho Moscow, Idaho 83843

Closing date for applications is 15 January 1977. The University of Idaho is an Affirmative Action/Equal **Opportunity** Employer.

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ASSOCIATE CHIEF OF STAFF OF RESEARCH The Veterans Administration Hospital, Cincinnati, Ohio, is seeking an associate chief of staff of re-search. The Cincinnati VA Hospital is an integral part of the University of Cincinnati Medical Center and staff members are appointed to the faculty of the College of Medicine. The hospital is committed to improving its research program, which currently has a research building (17,000 square feet), 14 funded in-vestigators, and 25 full-time research employees. The associate chief of staff of research would be a senior staff position and primary duties would be to administer, guide and oversee the research program. Clinical responsibilities are possible. Preference will be given to candidates with an M.D. degree and some administrative experience. The VA Hospital is an Equal Opportunity Employer. Please send curric-ulur vitae or letters of inquiry to: Raymond John Lipicky, M.D. Chairman, Search Committee for Associate Chief of Staff of Research Division of Clinical Pharmacology 5502 Medical Science Building 231 Bethesda Avenue Cincinnet, Dia 45267

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BIOLOGY—Gettysburg College needs an assistant professor of biology effective September 1977 who should have teaching and research competence in cell biology/developmental biology and the ability to teach biochemistry. Ph. D. required; salary depen-dent upon background and experience. Initial ap-pointment for a period of up to 2 years with possi-bility that appointment will be tenure qualifying after the 2-year period. Send letter of application includ-ing names of three references by 15 February 1977 to A. R. Cavaliere, Chairman, Department of Biology, Gettysburg College, Gettysburg, Pa. 17325. Equal Opportunity Employer, M/F.

SCIENCE, VOL. 194

ASSISTANT PROFESSOR OF NEUROSCIENCE

The University of California, Los Angeles, invites applications or nominations for a position of assist-ant professor of neuroscience. This appointment will be sponsored jointly between the Brain Research Institute and an appropriate basic science department in the School of Medicine. The appointment com-mittee is seeking a scientist of recognized accommittee is seeking a scientist of recognized accom-plishment and outstanding promise in the field of cel-lular neurobiology, one area of particular interest being neuroimmunology. The appointee will join the newly established Ahmanson Laboratory of the Brain Research Institute. Applications for nomi-nations should be submitted with a curriculum vitae, bibliography, and names of potential references to: **Director, Brain Research Institute, UCLA School of Medicine, Los Angeles, California 90024.** All applica-tions and inquiries will be treated confidentially with-in the limits of the law. UCLA is an Equal Opportu-nity Employer. Candidates will be considered with-out regard to race, color, religion, sex, or national out regard to race, color, religion, sex, or national origin. All applications must be received by 31 De-cember 1976.

UNIVERSITY OF ALBERTA Edmonton, Alberta, Canada ASSISTANT PROFESSOR, PHYSIOLOGY

Salary negotiable. M.D. and/or Ph.D. Strong re-Salary negotiable. M.D. and/or Ph.D. Strong re-search interest and teaching ability essential. Orien-tation to physiological chemistry or molecular biol-ogy desirable. Apply with curriculum vitae and names of three referees by 20 January 1977. Applications to: Dr. M. Schachter, Professor and Chairman, Department of Physiology, University of Alberta, Edmonton, Alberta, Canada T6G 2H7.

University of Pennsylvania seeks up to two **ASSIST-ANT PROFESSORS OF PSYCHOLOGY** in any area. Applications especially invited from those who would enhance the balance of the department by strengthening under some sented. Sola, whether would enhance the balance of the department by strengthening under-represented fields, whether they be recent or more experienced Ph.D.'s. Duties include undergraduate and graduate teaching, and re-search. Send curriculum vitae, relevant papers (in-cluding dissertation summary), statement of re-search plans, and three to five letters of recommen-dation to: Personnel Search Committee, Department of Psychology, University of Pennsylvania, 3815 Wal-nut Street, Philadelphia, Pa. 19174. We are an Equal Opportunity Employer.

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MICROBIOLOGY-CHAIRPERSON: Required ex-MICROBIOLOGY-CHAIRPERSON: Required ex-perience in graduate level research and under-graduate level education. Salary will be com-mensurate with experience. Qualified persons should send curriculum vitae and three letters of rec-ommendation to Gilbert Gordon, Department of Chemistry, Miami University, Oxford, Ohio 45056. Deadline for all credentials: 15 January 77, Miami University is on Feuel Operativity (Afgementia) of the University is an Equal Opportunity/Affirmative Ac tion Employer.

The University of California, Irvine, College of Med-icine is seeking a **CHAIRMAN** for the Department of Pharmacology. Candidates must be eligible for ap-pointment to the rank of professor. Candidates must have demonstrated excellence in biomedical renave demonstrated excellence in biomedical re-search and teaching and should preferably have ad-ministrative experience. Applications from all quali-fied candidates are welcome; minorities and women are encouraged to apply. Send curriculum vitae, be-fore 31 January 1977, to Paul S. Sypherd, Chairman of the Search Committee, Department of Medical Mi-crobiology, University of California, Irvine, Califor-nia 92717.

17 DECEMBER 1976

POSITIONS OPEN

CELL BIOLOGIST. Two research positions are open now for work on the genetics and physiology of chemical carcinogenesis in tissue culture. Devel-opment of in vitro tissue culture screens for mutaopment of in vitro tissue culture screens for muta-gens, carcinogens, teratogens, and chemotherapeu-tic agents as well as general studies of the control of growth are planned. Novel methods will be devel-oped to exploit a unique automated facility devel-oped here for quantitative measurements on very large numbers of clones. Tissue culture experience essential, somatic cell genetics and physiology expe-rience valuable, familiarity with computers helpful. Send résumé, description of your research interests, and three letters of recommendation by 1 February 1977 to Dr. Donald A. Glaser, Molecular Biology De-partment, University of California, Berkeley Calif. 94720. An Equal Opportunity/Affirmative Action Em-ployer. ployer.

DEPARTMENT CHAIRPERSON-To coordinate ac-tivities and provide leadership in teaching and re-search in the Department of Family and Consumer Resources, College of Liberal Arts. Degrees offered at bachelor's and master's levels in five areas: consumer affairs; foods and nutrition; housing and interi-ors; human development and relationships; and tex-tiles, fashion merchandising and apparel design.

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18 September 1977. University Setting—Wayne State University is a large urban university located in Detroit's cultural center. The department has 18 faculty, 800 under-graduates and 125 master's level students. Send résumé to Wilfred C. Becker, Chairman, Search Committee, 554 Mackenzie Hall, Wayne State University, Detroit, Michigan 48202. Application re-view begins L February.

view begins 1 February. Wayne State University is an Equal Opportunity/Af-firmative Action Employer.

CHAIR OF PHYSIOLOGY: Applications are invited for this position, Department of Physiology, Mich-igan State University. The department is a large all-university unit with responsibilities for under-graduate, medical professional and graduate teach-ing and research. Candidates will be evaluated on the basis of their scientific stature, proven teaching ability and administrative competence. Salary com-petitive. Submit curriculum vitae before 3 January 1977 to: Dr. Theodore M. Brody, Chairman, Search and Selection Committee, Department of Pharmacolo-gy, B440 Life Sciences Building, Michigan State Uni-versity, East Lansing, Michigan 48824. An Equal Op-portunity/Affirmative Action Employer.

The Department of Psychology, Princeton University, anticipates an opening in the area of COGNI-TIVE PSYCHOLOGY at the level of full professor. Candidates for this position must have a demon-strated record of scientific accomplishment and teaching at both the undergraduate and graduate levels. Specific areas of research interest include cogni-tive development, information processing, memory, and language behavior. Outstanding candidates will, of course, be considered regardless of specific areas of interest. of interest.

Nominations and applications should be sent to Professor Ronald Kinchla, Chairman, Cognitive Search Committee, Department of Psychology, Green Hall, Princeton University, Princeton, New Jersey 08540. We are an Equal Opportunity Employer with a vigorous commitment to Affirmative Action.

NEUROANATOMIST

The Department of Psychology invites applications for an anticipated faculty position at the assistant professor level for the fall of 1977. We are interested professor level for the fall of 1977. We are interested in a candidate who uses neuroanatomy as a tool for studying function or behavior. The candidate should be prepared to teach courses in vertebrate neuroana-tomy at the undergraduate and graduate levels as part of Princeton University's interdepartmental doctoral program in neuroscience. The Department of Psychology currently has five full-time faculty members whose major interest is in neuroscience and behavior. Send curriculum vitae and these let and behavior. Send curriculum vitae and three let-ters of recommendation to Chairperson, Neurosci-ence Search Committee, Department of Psychology, Princeton University, Princeton, N.J. 08540. Prince-ton University is an Equal Opportunity Employer with a vigorous Affirmative Action Program.

POSITIONS OPEN

CHAIRPERSON: The University of Central Ar-kansas invites application or nomination for chair-person of the Department of Biology. Applicants should hold the Ph.D. in a biological science, have a should hold the Ph.D. in a biological science, have a distinguished academic background, a record of effective teaching and other scientific accomplishments in one or more areas of biological science. Applicants should also have broad experiences and interests in order to provide leadership and coordination for a 12 person department with diverse scientific backgrounds. Correspondence should be sent to Dr. J. B. Throneberry, Search Committee Chairman, Department of Biology, University of Central Arkansas, Conway, Arkansas 72032. Completed applications should be received by 10 February 1977. An Equal Opportunity/Affirmative Action Employer. Employer.

CHAIRMAN-DEPARTMENT OF ZOOLOGY NORTH DAKOTA STATE UNIVERSITY

North Dakota State University anticipates a va-cancy in the chairmanship beginning July 1977. Can-didates must have an earned doctorate, academic administrative experience, and an established and sus-tained record of research, preferably in an area of invertebrate zoology. Teaching experience and inter-est in undergraduate instruction is essential.

Applications should include a curriculum vitae with publications, summary of experience including teaching and academic administration, and the names of at least three references. Submit applica-tions by 1 March 1977 to William J. Bleier, Depart-ment of Zoology, North Dakota State University, Far-go, N.D. 58102. An Equal Opportunity/Affirmative Action Employer

UNIVERSITY OF MARYLAND DEAN, College of Engineering

Nominations and applications are invited for the po-sition of Dean of the College of Engineering. The College consists of six academic departments: aero-space, chemical, civil, electrical, fire protection, and mechanical. The college offers B.S., M.S., and Ph.D. degrees in the academic departments. In addi-tion there are graduate degree programs in nucleor tion there are graduate degree programs in nuclear engineering and engineering materials.

Desired qualifications: Ph.D. or equivalent in an en-Desired qualifications: Ph.D. or equivalent in an en-gineering discipline, a significant record of engineer-ing research and professional activity, and substan-tial academic and administrative experience. The ap-pointment will be effective 1 July 1977. Applicants should qualify for an academic appointment with ten-ure in the relevant department. The salary will be commensurate with qualifications.

Applications should be received before 15 February 1977 to receive full consideration. Applicants should submit a complete résumé with references to: Dr. Alex J. Dragt, Chairman, Dean Search Committee, Division of Mathematical, Physical Sciences, and Engi-neering, University of Maryland, College Park, Mary-land 20742. Applications should be received before 15 February

The University of Maryland actively subscribes to a policy of Equal Educational and Employment Oppor-tunity. The University of Maryland is required by Title IX of the Education Amendments of 1972 not to discriminate on the basis of sex in admission, treat-ment of students, or employment.

DEAN College of Graduate Studies Medical University of South Carolina

Medical University of South Carolina The Medical University of South Carolina, located in Charleston, S.C. and having an enrollment of 2300 students, is seeking candidates for the position of dean of the College of Graduate Studies. Currently there are 123 graduate students in either the master of science or doctor of philosophy degree program. The dean is directly responsible to the vice president for academic affairs. Requirements: nominee or ap-plicant must have an earned doctoral degree and demonstrated ability in academic pursuits. Closing date: applications and nominations will be accepted if received prior to 1 February 1977. Effective date: the dean will assume duties as of 1 July 1977. Salary: commensurate with qualifications and responsibili-ties. Mail nominations and curriculum vitae to: **Dr**. ties. Mail nominations and curriculum vitae to: Dr. E. Bagwell, Chairman, Search Committee for Dean of the College of Graduate Studies, Department of Phar-macology, Medical University of South Carolina, Charleston, S.C. 29401. Affirmative Action and Equal Opportunity Employer

DIRECTOR, GORGAS MEMORIAL LABORATO-RY, PANAMA-Senior scientist, administrator for private non-profit international research organiza-tion to direct aggressive expanding research and training programs in Latin America. Emphasis on diseases of the tropics; program areas include ecol-ogy, virology, parasitology, bacteriology, epidemiol-ogy and immunology. Research and management ex-perience required. Proficiency in Spanish desirable. Salary commensurate with training and experience. Starting dates between April 1977 and September 1977 will be considered at this time. Please send cur-riculum vitae, three letters of recommendation, and copies of major publications to: Jack W. Millar, M.D., President, Gorgas Memorial Institute of Trop-ical and Preventive Medicine, Inc., 2007 Eye Street, NW, Washington, D.C. 20006. Equal Opportunity Employer. DIRECTOR, GORGAS MEMORIAL LABORATO-Employer.

DIRECTOR, CENTER FOR RESEARCH IN AERONOMY

Utah State University is seeking a scientist of in-ternational stature as director of the Center for Re-search in Aeronomy. This position carries with it a professorship in an appropriate academic depart-ment. Applicants must have demonstrated scientific ment. Applicants must have demonstrated scientific excellence and leadership in a research field related to aeronomy, atmospheric chemistry, or solar sys-tem space science. Prior experience in establishing and managing a research program of outstanding quality is required. Salary is open and competitive. Applicants should send their résumés and the names and addresses of three references by 1 Febru-ary 1977 to W. Farrell Edwards, Search Committee, Department of Physics, Utah State University, Logan, Utah 84322. Utah State University is an Equal Op-portunity/Affirmative Action Employer.

ECOLOGIST. Assistant professorship, beginning September 1977 for 3-year appointment. Ph.D. re-quired. Individual should have broad biological back-ground and be prepared to teach ecology and in-troductory biology. Competencies in the areas of in-vertebrate zoology, behavior, and development desirable. Individual selected will have opportunity to accivit in davaloment of the ecological field stadesirable. Individual selected will have opportunity to assist in development of the ecological field sta-tion on 275-acre Vassar Farm. Active research inter-est expected; opportunity for advancement exists. Send curriculum vitae, explanation of qualifications and references to Dr. Patricia Johnson, Chairman, Department of Biology, Vassar College, Pough-keepsie, New York 12601. Vassar College is an Equal Opportunity/Affirmative Action Employer.

ECOLOGIST (1) AND NONVASCULAR BOT-ANIST (1). A small public liberal arts college, 70 miles southeast of Washington on Chesapeake Es-tuary seeks applicants who are committed to teach-ing and with a liberal arts perspective for two regular faculty positions at the rank of instructor or assistant professor. Candidates for first position should be general ecologists with a strong background in field biology including aquatic ecology. To teach courses in general ecology, in environmental systems, and in related areas, and a nonmajor course on environmen-tal problems. Candidates for second position should be trained in algae and other lower plants of estua-rine and coastal regions. Will teach nonvascular bot-any, plant taxonomy, water pollution biology and other related undergraduate courses. Faculty of sev-en biologists. Salary ranges: assistant professor, \$10,500 to \$15,000; instructor \$9,000 to \$13,000. Ph.D. preferred. Send letter and résumé by 14 Janu-ary to: Dr. C. M. Wilson, Chairman, Science Divi-sion, St. Mary's College of Maryland, St. Mary's City, Md. 20686. Affirmative Action/Equal Opportu-nity Employer. nity Employer.

EPIDEMIOLOGIST/BIOSTATISTICIAN

EPIDEMIOLOGIST/BIOSTATISTICIAN Epidemiologist with strong background in biostatis-tics to establish and direct the Oklahoma Cancer Center Tumor Registry at the University of Oklaho-ma Health Sciences Center. A doctorate degree or equivalent experience preferred. Tumor registry ex-perience highly desirable. An appointment, in the College of Health, Department of Biostatistics/ Epidemiology and an opportunity to do research are available. Salary is open with excellent fringe bene-fits. Please send curriculum vitae with details of work experience and references to Dr. Jack L. Whenry, Oklahoma Cancer Center, P.O. Box 26901, Oklahoma City, Oklahoma 73190. An Equal Opportu-nity/Affirmative Action Employer.

POSITIONS OPEN

ASSOCIATE DIRECTOR-CANCER CONTROL. ASSOCIATE DIRECTOR-CANCER CONTROL. The Ephraim McDowell Community Cancer Net-work, Inc., is seeking a physician to direct commu-nity cancer control activities in central and eastern Kentucky. Successful candidate will join full-time faculty of the University of Kentucky College of Medicine with rank and salary commensurate with academic credentials. Applicants should submit cur-riculum vitae and letters of reference to D. M. Gold enberg, Sc.D., M.D., Executive Director, Ephraim McDowell Community Cancer Network, Inc., 915 South Limestone, Lexington, Kentucky 40503. An Equal Opportunity/Affirmative Action Employer.

EXPERIMENTAL PSYCHOLOGIST, ASSIST-ANT PROFESSOR, beginning September 1977. The Department of Psychology at the University of Minnesota is seeking a new or recent Ph.D. with a primary interest in perception, information process-ing, or cognition. A secondary interest in the other two areas is preferred. The anticipated teaching re-sponsibilities are: (i) an advanced level course in persponsibilities are: (1) an advanced level course in per-ception; (ii) an introductory course in cognition/in-formation processing; and (iii) a graduate seminar in the candidate's area of specialization. The candidate must be capable of maintaining a strong research pro-gram. Salary is competitive. The University of Min-nesota is an Equal Opportunity Employer. Women and minority candidates are encouraged to apply. Send curicolum vitae, three letters of reference and a minority canadates are encouraged to apply. Send curriculum vitae, three letters of reference, and a statement (maximum two pages) of long-term research interests to: Dr. David LaBerge, Elliott Hall, 75 East River Road, University of Minnesota, Minneapolis, Minnesota 55455 by 1 February 1977.

NEUROHISTOLOGIST. Ideal candidate should be experienced in use of silver stains, Golgi stains, HRP, and use of radioactively labeled amino acids (autoratiography). As minimum experience, must be familiar with standard stains for frozen and par-affin embedded material. Please send curriculum vitae and recommendations to Lila J. Magie, an assist-ant Director of Personnel, The Rockefeller University, 66 Street and York Avenue., New York, N.Y. 10021. An Equal Opportunity Employer.

FACULTY POSITIONS OPEN COLLEGE OF MEDICINE KING FAISAL UNIVERSITY DAMMAM, SAUDI ARABIA

pplications are now invited from qualified men and women in these premedical and preclinical subjects:

Chemistry	Biochemistry
Biology	Physiology
Physics Anatomy	Embryology Pathology
Community Medicine	Biostatistics
Histology	Epidemiology

Doctorate or similar degree required. M.D. degree receives higher salary. Language of instruction is English. Positions are available immediately and for 1977–78.

Salary ranges (approximate):

Professor: \$23,000 to \$25,344 Associate professor: \$18,423 to \$22,272 Assistant professor: \$13,824 to \$25,492

Free, furnished accommodation is provided.

Incomes not subject to Saudi Arabian income tax.

Send requests for application forms and information to:

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

POSITIONS OPEN

The Department of Biology anticipates an opening for an **ECOLOGIST** beginning fall 1977. Preference will be given to a plant community ecologist. Appli-cants must be willing to establish their own research cants must be willing to establish their own research program and teach introductory courses as well as a course in their area of specialization. Résumé, cop-ies of publications, and three letters of reference should be sent to Dr. William L. Thompson, Depart-ment of Biology, Wayne State University, Detroit, Michigan 48202.

An Affirmative Action/Equal Opportunity Employer

FACULTY POSITIONS are open to candidates with postdoctoral training and evidence of strong re-search productivities in the areas of regulatory biology and biophysics. Preference will be given but not limited to: membrane biology, reproduction, com-puter analysis of regulatory systems. Please send ré-sumé, description of research goals, and three let-ters of recommendation to: **Dr. Philip D. Morse, II**, Department of Biology, Wayne State University, De-troit, Michigan 48202. An Affirmative Action/Equal Opportunity Employer

UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER COLLEGE OF PHARMACY FACULTY POSITIONS IN CLINICAL NUCLEAR PHARMACY

Applications are invited for two full-time faculty po-sitions in **nuclear pharmacy**. Salary and academic rank are dependent upon the candidate's qualifica-tions. The University of Oklahoma College of Phar-macy has recently relocated to the University of Oklahoma Health Sciences Center in Oklahoma City. The planned expansion of the curriculum, re-search and involvement in nuclear pharmacy esersearch and involvement in nuclear pharmacy serv-ices to area hospitals will offer opportunities for in-terrelationships with other health care professionals and provision of clinical nuclear services.

Individuals with experience and demonstrated competency as nuclear pharmacy practitioners/educa-tors are particularly encouraged to submit applica-tions. Applicants must have a baccalaureate degree in pharmacy eligible for registration in Oklahoma and should have a Ph.D. degree. Demonstrated expe-rience and competency may be substituted for the advanced degree.

Interested candidates for the positions should send a letter of application, curriculum vitae, and three references to:

R. D. Ice, Dean College of Pharmacy University of Oklahoma Health Sciences Center 644 Northeast 14th Street Oklahoma City, Oklahoma 73190

The University of Oklahoma is an Equal Opportu-nity/Affirmative Action Employer.

FISH ECOLOGIST ACADEMY OF NATURAL SCIENCES

Ph.D. with competence in statistical design, popu-lation dynamics, census methods and writing. Prima-ry responsibilities include applied environmental studies and basic research. Must be able to work in studies and basic research. Must be able to work in multidisciplinary team. Rank is at the level of assis-tant curator. Job location is Benedict Estuarine Lab-oratory, near Chesapeake Bay. Available immediate-ly. Send curriculum vitae, reprints, and three letters of recommendation to: Dr. George D. Constantz, Di-vision of Limnology and Ecology, Academy of Natural Sciences, 19th and the Parkway, Philadelphia, Pa. 19103. An Equal Opportunity/Affirmative Action Em-ployer. ployer.

IMMUNOPARASITOLOGIST-Incumbent will su-pervise parasite serology laboratory, develop and evaluate diagnostic tests for parasitic diseases, de-velop programs for control, surveillance and pre-vention of parasitic diseases of livestock, and partici-pate in the College's teaching and research programs in parasitology and immunology. D.V.M. and/or Ph.D. with strong research and field background in parasitology and immunology. Title and salary com-mensurate with experience. Send curriculum vitae, personal bibliography, and at least three references, before 31 December 1976, to: Dr. R. H. Cypess, Di-rector, Diagnostic Laboratory, New York State Col-lege of Veterinary Medicine, P.O. Box 786, Ithaca, N.Y. 14850. An Equal Opportunity Employer.

SCIENCE, VOL. 194

PHYSICIANS (MULTIPLE OPENINGS)—Food and Drug Administra-tion/Bureau of Drugs. (Equal Opportunity Employer.) Immediate career Civil Service openings for physicians to evaluate clinical data of new drugs. Physicians function as leaders of multidiscipline teams reviewing New Drug Applications (NDAs) and Notices of Claimed Investigational Exemption for New Drugs (INDs). They participate in formulating policy and developing standards and guidelines for the study of new drugs. Positions are available in most specialties with most immediate needs in Fields of Cardiology, Gastroenterology, Rheumatology, Anesthesiology, Pulmonary-Allergy, OB/GYN, and Infectious Diseases. The positions require judgment, ability to plan and organize work, effectiveness in writing, speaking, and interpersonal skills. Security, good salary (\$33,126 to \$37,800 per year), comprehensive fringe benefits, ongoing contacts with professional colleagues and provision for maintaining clinical expertise. Positions are available in the U.S. Civil Service system or the Commissioned Corps of the Public Health Service. Candidates must be U.S. citizens, graduates of U.S. or Canadian Medical Schools with a degree of Doctor of Medicine or Doctor of Osteopathy from a school approved by the Bureau of Professional Education Committee on Colleges of the American Osteopathic Association. A full, unrestricted, and permanent license to practice in a State, District of Columbia, Puerto Rico, or a territory of the U.S. is desirable. Graduates from foreign medical schools, or medical schools not listed as approved by the American Medical Association, may show comparability in medical education with approved schools in one of the following ways:

1. Permanent and full or unrestricted license to practice medicine in a State, the District of Columbia, Puerto Rico, or a territory of the U.S., or

2. At least one year as an active duty commissioned medical officer in the U.S. Armed Services or Public Health Service, or

3. Certification in a specialty by an American Specialty Board, or

4. Permanent certification by the Education Council for Foreign Medical Graduates in its American Medical Qualifying Examination or eligibility in the full examination of the National Board of Medical Examiners.

Send resume to:

FDA Personnel (Mr. Stephen Tobias) Room 4B-44 5600 Fishers Lane Rockville, Maryland 20852

Research Immunologist

We're a world-wide leader in the health care, pharmaceutical industry seeking a highly qualified individual to initiate a research program designed to identify drugs capable of modulating the immune response. Responsibilities will include the investigation of pharmacological means of regulating cellular hypersensitivity reactions with the ultimate goal of uncovering agents useful in the treatment of rheumatoid arthritis.

The qualified candidate will have a Ph.D. degree in Immunology or Pharmacology with several years experience in the field of cellular immunology. A supervisory background will also be helpful.

To the career oriented professional who joins us we offer an excellent salary, full company benefits, and solid potential for growth. Send your detailed resume, with salary history, in confidence, to:



Abbott is an Affirmative Action Employer

Laboratory Head Cardiovascular Pharmacology

Abbott Laboratories, a major, international health care corporation, has an outstanding career opportunity for a qualified professional with a major research interest in the field of hypertension. The person who directs our progressive cardiovascular laboratory will have a Ph.D. and/or a M.D. degree, expertise in Pharmacology, Physiology or Biochemistry of the cardiovascular system and 5-10 years cardiovascular research experience in a university or industry position. Supervisory responsibility and a proven record of expertise in the field, will also be essential.

The scientist who accepts this challenging position will have an excellent salary, fringe benefits, and potential for career growth. Interested scientists should send a detailed curriculum vitae with a salary history in confidence to:



Cell Cycle Analysis

NATIONAL CANCER INSTITUTE POST-DOCTORAL NATIONAL RESEARCH SERVICE AWARD

The University of California's Lawrence Livermore Laboratory has a post-doctoral fellowship in cell cycle analysis available through the National Research Service Award program of the National Cancer Institute.

Applicants should be PhD's, MD's or VMD's with past experience and desire to continue in the field of tumor growth kinetics. Individual backgrounds might include biologists interested in the natural history of tumor growth, pharmacologists and medical onocologists interested in cancer therapy, and bio-physicists interested in the general field of cell cycle kinetics. Position will involve the study of kinetic behavior of normal and malignant cell population systems using both conventional and slow systems methods of analysis.

Send curriculum vitae to Arthur L. Henry, Lawrence Livermore Laboratory, Personnel Department, (SC-126), P.O. Box 808, Livermore, California 94550.

LAWRENCE LIVERMORE LABORATORY



An Equal Opportunity Employer

17 DECEMBER 1976

INSECT TOXICOLOGIST, ASSISTANT PROFES-INSECT TOXICOLOGIST, ASSISTANT PROFES-SOR-Ph.D. or equivalent. Academic year appoint ment, available summer 1977. Background in ento-mology and toxicology with an interest in field orient-ed research on the fate of toxicants in the environment. Teaching responsibilities in environ-mental toxicology and insect toxicology. Applica-tion deadline: 1 February 1977. Address applications or inquiries to Dr. John Edman, Chairman of Search Committee, Department of Entomology, Fernald Hall, University of Mass., Amherst, Mass. 01003. Telephone 413-545-2284. An Affirmative Action/ Equal Opportunity Employer.

INSTRUCTOR

Duties: Research and teaching in human genetics with little or no responsibility for clinical determinations.

Training: Doctorate and experience in human bio-chemical genetics, especially in the area of prymi-dine metabolism.

Candidates should send curriculum vitae, publication reprints, and three letters of reference to Dr. Robert S. Krooth, Chairman, Department of Human Genetics and Development, College of Physicians and Surgeons, 701 West 168th Street, New York, N.Y. 10032. Equal Opportunity/Affirmative Action Employer, M/F.

LECTURER-ASSISTANT RESEARCH PSYCHO-BIOLOGIST. Beginning 1 January 1977 a position is available in the Department of Psychobiology requir-ing both teaching and research. Applicants must have completed the doctorate, should be interested in teaching neurobiology at the undergraduate level and should be pursuing research in neurobiology, specializing in the area of in vitro neurophysiology. Address applications to Dr. Gary S. Lynch, Depart-ment of Psychobiology, University of California, Ir-vine, California 92717, providing curriculum vitae and publications. At least three letters of recommen-dation should be sent by references. Applications dation should be sent by references. Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.

MEMBRANE BIOLOGIST

Applications are invited for an assistant or associate professor in the school of Life Sciences to develop professor in the school of Life Sciences to develop and maintain an active research program and super-vise graduate students in membrane biology. Post-doctoral required. Teaching of cell biology essential. Salary negotiable and competitive. Starting August 1977. Curriculum vitae, list of publications, a short description of future research program, and the names of three references should be sent to Dr. Eric Davies, School of Life Sciences, University of Nebras-ka-Lincoln, Lincoln, Nebraska 68588. The University of Nebraska is an Equal Opportunity Employer. Ap-plications received after 15 January 1977 will not be considered.

MOLECULAR BIOLOGIST

The Cellular and Molecular Biology Faculty of Colo-rado State University—an interdisciplinary group drawn from eight academic departments—is seeking a molecular biologist with a Ph.D. in an appropriate field and at least 2 years of postdoctoral experience (or the equivalent) in molecular events of replica-tion; transcription; translation; or, processing of ge-netic information. The candidate must have the abil-ty to teach molecular genetics at the undergraduate ty to teach molecular genetics at the undergraduate and graduate levels and will also be expected to pur-sue a vigorous research program in his/her areas of expertise.

Faculty rank and departmental affiliation are nego-tiable. We anticipate that the position will be avail-able beginning September 1977. Deadline for receipt of applications is 31 January 1977.

More detailed information about this position and instructions for application thereto may be had by writing to:

Dr. George M. Happ, Chairman Graduate Faculty of Cellular and Molecular Biology c/o Department of Zoology and Entomology Colorado State University Fort Collins, Colorado 80523

Colorado State University is an Equal Opportunity Employer and complies with Title IX requirements. Complaints should be filed with the Office of Equal Opportunity, Student Services Building. Enquiries from qualified ethnic minority and/or female can-didates are especially welcomed.

POSITIONS OPEN

MOLECULAR BIOLOGY-DEVELOPMENTAL GENETICS

DEVELOPMENTAL GENETICS Applications are invited for the position of assis-tant professor (effective August 1977) in the Depart-ment of Biology at Creighton University. The posi-tion requires participation in biology instruction at the introductory level and development of upper di-vision and graduate offerings in molecular aspects of genetic and developmental control mechanisms. In addition to teaching, the individual will be expected to develop an active research program. Subsequent promotion will depend on both scholarly and teach-ing performance. Consideration will be given to both zoologically and botanically trained applicants.

Applicants should send a curriculum vitae (which includes a description of teaching experience and expertise), three letters of recommendation, and transcripts to:

Dr. Harry Nickla Chairman, Search Committee Department of Biology Creighton University Omaha, Nebraska 68178

The deadline for receipt of applications is 15 February 1977. Creighton University is an Equal Opportunity Em

ployer.

NEUROPHYSIOLOGIST: MAMMALIAN CEN-TRAL NERVOUS SYSTEM: Rank and salary open, for fall 1977. Teaching includes undergraduate and graduate instruction, largely in neurophysiology. Postdoctoral research experience, publications, strong biological background essential. Additional teaching expertise in neuroanatomy preferred. Appli-cations should be received by 15 February 1977. Ap-ply to: Dr. James E. Heath, Department of Physiology and Biophysics, 524 Burrill Hall, University of Illi-nois, urbana, Illinois 61801. The University of Illi-nois at Urbana-Champaign is an Affirmative Action/ Equal Opportunity Employer and encourages appli-cations from members of minority groups and wom-en.

NUCLEAR MEDICINE—The Department of Radi-ology invites applications for the position of assistant professor or associate professor in the Division of Nu-clear Medicine at the Ohio State University Hospi-tals, Columbus, Ohio.

Applicants should be Board-certified and thor-oughly trained, preferably in a University Center, in the use of radionuclides, and must have demon-strated evidence of clinical expertise. A portion of time in this position will be devoted to teaching medi-cal students, residents, and to research—applicants must therefore have had prior training in the funda-mentals of research methodology. To ensure that the successful candidate will be able to work closely with the medical imaging team, preference will be given to applicants with training in diagnostic radiol-

ogy. Applications from all qualified candidates are welcome; minorities and women are encouraged to ap-

If you are interested in this position, please write to the address below including a curriculum vitae and an autobiographical letter.

Marc R. Tetalman, M.D. Acting Director Division of Nuclear Medicine Ohio State University Hospitals 410 West 10th Avenue Columbus, Ohio 43210

PH.D. to supervise studies in genetics of trans-plant antigens and immunology of marrow trans-plantation with emphasis on transplantation toler-ance. Good experience with animal models. **Division of Oncology**, **University of Washington**, **Seattle**, **Wash-ington 98195**.

POSTDOCTORAL POSITION

IMMUNOLOGY. Research areas in immuno-genetics including use of synthetic polymers to study genetic control of immune response in mice; isola-tion, characterization of lymphocyte membranes, T cell receptors, T cell factors, and so forth. Experi-ence in biochemical isolation techniques preferred. Apply with curriculum vitae to Dr. Paul H. Maurer, Department of Biochemistry, Jefferson Medical Col-lege, 1020 Locust Street, Philadelphia, Pennsylvania 19107.

POSITIONS OPEN

LECTURER IN BIOLOGY, Ph.D. needed to teach LECTURER IN BIOLOGY, Ph.D. needed to teach introductory level biology courses to under-graduates from educationally disadvantaged back-grounds. Teaching effectiveness is our most impor-tant concern; the candidate will be expected to pro-vide assistance to students outside of class. This is a non-tenure track position starting August 1977. Send résumé, transcripts, and five letters of reference be-fore 31 December to: Dr. R. J. Kaleta, Experimental Program in Higher Education, University of Wiscon-sin-Milwaukee, Milwaukee, Wisconsin 53211. An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION IN MEMBRANE BIOCHEMISTRY. A recent Ph.D. with a strong bio-chemistry background is required for a group investi-gating mammalian cell membrane mutants. The position is in a hospital based, university affiliated basic research laboratory. The appointment is for 2 years and is available immediately. Canadian citizens or permanent residents preferred. Apply to: R. L. Ju-liano, Ph.D., Research Institute, Hospital for Sick Children, Toronto, Ontario, Canada M5G 1X8.

POSTDOCTORAL POSITIONS IN IMMUNOLO-GY: postdoctoral research positions available this year (and 1977) for Ph.D. or M.D. graduates in the areas of tumor/bacterial immunology (Dr. Percy Minden) and structure of lymphocyte membrane an tigens (Dr. Howard Grey). Send curriculum vitae and names of three references to: **Dr. Ronald J. Har**and names of three references to: Dr. Konaid J. Har-beck, Education Committee, Allergy and Clinical Im-munology, National Jewish Hospital and Research Center, 3800 East Colfax Avenue, Denver, Colorado 80206. An Equal Opportunity Employer.

POSTDOCTORAL POSITION: Immediate open-ing for recent Ph.D. with strong background in mi-crobial genetics and enzymology. Research deals with biochemical genetics of bacteria with particular with biochemical genetics of bacteria with particular emphasis on gene-enzyme interactions and gene ex-pression. Please send curriculum vitae and refer-ences to: Dr. J. S. Gots, Department of Microbiology, School of Medicine, University of Pennsylvania, Phila-delphia, Pa. 19174. Equal Opportunity/Affirmative Action Employer.

PROFESSOR AND CHAIRPERSON, Department of Physical Education and Dance, including elective, undergraduate through graduate professional prepa-ration programs. Doctorate or equivalent degree with administrative ability and strong teaching, ser-vice, and research. Deadline 1 February 1977. Send application letter and curriculum vitae to George E. Stelmech Department of Physical Education and Stelmach, Department of Physical Education and Dance, 2000 Observatory Drive, University of Wiscon-sin, Madison, Wisconsin 53706. An Equal Opportu-nity/Affirmative Action Employer.

PSYCHOLOGY FACULTY POSITION. Rank and salary dependent upon qualifications. To teach at the graduate and undergraduate levels, conduct re-search, supervise student research. Ph.D. (or com-pletion of dissertation by September 1977) and dem-onstrated research competence required.

Area of specialization open, special consideration may be given to those with developmental and/or applied interests

Indication of sex and ethnicity for Affirmative Ac-tion statistical purposes is requested but not re-quired. Send curriculum vitae, letter of salient inter-est, and three letters of reference by 15 February 1977 to:

Dr. Alexander Clark Vice President for Academic Affairs The University of Texas at Dallas P.O. Box 688 Richardson, Texas 75080

The University of Texas at Dallas is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Position available imme-diately for Ph.D. with strong background in soil mi-crobiology and soil chemistry, to work on project dealing with the study of nitrogen transformation and organic matter decomposition in soils. The ap-pointment will be for 1 year initially. Send résumé to: Dr. A. J. Francis, Department of Applied Science, Brookhaven National Laboratory, Associated Univer-sities Inc., Upton, L.I., N.Y. 11973. An Equal Oppor-tunity Employer, M/F.

BIOMEDICAL RESEARCH ELECTRON MICROSCOPIST

We are the rapidly expanding U.S. sub-sidiary of ICI Ltd. (London), a pharma-ceutical research institution.

Our Safety Evaluation group has a January 1977 opening calling for:

- Embedding and sectioning of tissue for electron microscopy
- Survey and photography of EM tissues
- Analysis of EM findings and assistance in report writing
- Cryostat sectioning and histochemical techniques for light microscopy

You should hold M.S. or B.S. degree in biology, with advanced EM training es-sential. Cryostat sectioning and histo-chemical technique experience is prefer-able, but not essential. Direct EM research experience preferable.

Our salaries and comprehensive benefits portfolio (including dental plan and tuition aid) compare favorably in American drug/ chemical industry. Laboratories are lo-cated in suburban Wilmington, 25 miles from Philadelphia.

Please submit resume and salary expectation in confidence to:

Charles T. Brodigan **Employee Relations**

ICI United States Inc. Wilmington, Delaware 19897 An Equal Opportunity Employer M/F

CELL **BIOLOGIST/** CHEMIST

Mammalian Cell Research

Argonne National Laboratory has a challenging staff opening in the Mammalian Cell Biology Group headed by Dr. M. M. Elkind. Appointment can be made at a level equivalent to postdoctoral, assistant or associate professor.

Research will concentrate on mechanisms of phenotypic changes induced in cultured mammalian cells by chemicals, and ionizing and nonionizing radiations. Mechanisms of oncogenesis, mutagenesis, and teratogenesis will be of particular interest, as well as the development of appropriate in vitro assay systems.

Compensation commensurate with background. Send curriculum vitae, bibliography and references to: Mr. R. A. Johns, Box Boon Argonne, IL 60439



LABORATORY

An Equal Opportunity Employer M/F.

PHARMACOKINETICIST PHARMACOLOGIST

The National Institute of Environmental Health Sciences, National Institutes of Health, Public Health Service, invites applications for a Pharmacokineticist/Pharmacologist to study the disposition of environmental pollutants in mammalian species, correlate pharmacokinetic studies with toxicity studies, and extrapolate results obtained with laboratory animals to man. The position will be located in the pharmacology branch, NIEHS, in the Research Triangle Park, (equidistant from Raleigh, Durham and Chapel Hill), North Carolina.

A Ph.D. or equivalent in Pharmaceutics, Biopharmaceutics, Pharmacokinetics, Biochemistry, Pharmacology, or a related field with previous training and/or research experience in pharmacokinetics is required. Consideration will be given to both junior and senior investigators. Senior investigators are expected to participate in active research programs as well as to direct and plan for anticipated growth of the pharmacokinetics group at NIEHS. Appointment may be made through a service fellowship or civil service appointment. Appointment will be made initially for one or two years and may be extended. Persons considered for career civil service appointments must be eligible on appropriate U.S. Civil Service Commission Registers. Salary range from \$15,120 to \$24,308 depending on gualifications. Letters of application with curriculum vitae, bibliography, and the names and addresses of two references should be mailed to

Ms. Penelope P. Gardner **NIEHS Personnel Office** P.O. Box 12233 Research Triangle Park, N.C. 27709

Letters must be received by January 7, 1977 to be considered.

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17 DECEMBER 1976

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IN THE ZOOLOGY DEPARTMENT in: Endocrinology, Invertebrate, Cell Biology, Histology and Histo Chemistry, Animal Behaviour, Comparative Anatomy, General Zoology.

QUALIFICATIONS

- · Must hold Ph.D. degree or its equivalent in the respective specialization.
- Must currently hold academic post in an accredited University or research center.

CONTACT the Kuwait Embassy Cultural Division for further information and application forms:

4340 Connecticut Ave. N.W., Suite 500 Washington, D.C. 20008 Tel. 202-244-4709

If outside the United States, please contact your nearest Kuwait Embassy.

PROTEIN CHEMIST

The National Institute of Environmental Health Sciences, National Institutes of Health, Public Health Services (PHS), invites applications for the position of protein chemist to plan and conduct independent and collaborative research involved with the structural characterization of normal and abnormal proteins and its implications in mammalian bio-chemical genetics and mutagenesis. A Ph.D. or the equivalent in biochemistry or genetics with research experience in protein sequencing is required. The po-sition will be filled through PHS service fellowship appointment. The annual salary range is from \$14,000 to \$29,500 depending on qualifications. (To be filled between 1 January and 1 July 1977.)

Letters of application with curriculum vitae, bibliography, and names and addresses of three refer-ences should be mailed to:

Penelope P. Gardner NIEHS Personnel Office P.O. Box 12233 Research Triangle Park, N.C. 27709

Letters must be received by 7 January 1977 to be considered.

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RADIOBIOLOGIST wanted to head up new pro-gram in the Division of Biology and Medicine at Brown University in conjunction with the Depart-ment of Radiation Oncology at the Rhode Island Hospital. Appointment and salary commensurate with expe-

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Send curriculum vitae and bibliography to: Arvin S. Glicksman, M.D. Professor of Medical Sciences Chairman, Section on Radiation Medicine Chairman, Department of Radiation Oncology Rhode Island Hospital Providence, Rhode Island 02902

RESEARCH ASSOCIATE

To study primate retinal physiology with electro-physiological techniques. Applicants should be re-cent Ph.D.'s. Those with a strong background in vi-sual science will be given preference. Candidates will be expected to partake in the development of particular studies and assume responsibility for a lab-cratory computer foility. oratory computer facility.

Interested candidates should send curriculum vitae and names of three references to: Dr. William Baron, Electronics and Bloengineering Laboratory, SRI, 333 Ravenswood Avenue, Menlo Park, Calif. 94025. An Equal Opportunity Employer.

RESPIRATORY PHYSIOLOGIST

The Department of Physiology and Biophysics at the University of Tennessee Center for the Health Sciences in Memphis, Tennessee, has a position available as of 1 July 1977, at the assistant or asso-ciate professor level, depending on qualifications, for a Ph.D. or M.D. with interest in respiratory phys-iology. Responsibilities will include teaching in both professional and graduate school courses in physiprofessional and graduate school courses in physi-ology and developing an independent research pro-gram. Interested persons should send curriculum vitae and the names of three references before 25 March 1977, to Dr. Clark M. Blattels, Department of March 1977, to Dr. Clark M. Blatters, Department of Physiology and Biophysics, University of Tennessee Center for the Health Sciences, 894 Union (NA 427), Memphis, Tenn. 38163. An Equal Opportunity/Af-firmative Action Employer.

IMMEDIATE TEACHING POSITIONS

Positions available for instructors holding Ph.D. or M.S. degrees in the following areas: anatomy; bi-ology, with emphasis in anatomy; chemistry; micro-biology; pathology; and physiology. Send résumé to:

Academic Dean Cleveland Chiropractic College 3700 Troost Avenue Kansas City, Missouri o

Academic Dean Cleveland Chiropractic College 590 North Vermont Los Angeles, California 90004

POSTDOCTORAL POSITION at the Johns Hopkins University School of Medicine. Available immedi-ately. Neurophysiological and neuroanatomical stud-ies of the postnatal ontogeny of cardiovascular con-trol systems. Applicants should have a strong back-ground in the neurosciences and be familiar with modern techniques in either neurophysiology or neu-roanatomy. Applicants should send their curriculum vitae and bibliography to Dr. Lawrence Schramm, The Johns Hopkins University School of Medicine, 223 Traylor Building, 1721 East Madison Street, Balti-more, Maryland 21205.

LABORATORY INSTRUMENT OR EQUIP-MENT SALESPERSON to train as advertis-ing space salesperson for major scientific journal. New York area. Contact **Dick Charles** Science Telephone: 212-736-1858

SCIENTIST/TECHNOLOGIST. Two year appointment. To aid three eastern universities develop course(s) in technological processes for graduate students in public administration/public policy. Ph.D. or master's in science/engineering laboratory, gov-ernment agency, university faculty or equivalent. Research/writing experience about administration of science/technology. Available February 1977.

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COURSE

The Pathology Department of Eastern Virginia Medical School will offer an intensive 5-week **COURSE** in the theory and practice of electron mi-croscopy in summer 1977. The course is not an over-view but is designed to provide competence in the field. A certificate will be awarded upon completion. Class size is limited to five people. For further infor-mation please contact: Dr. S. H. Vernick, Depart-ment of Pathology, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, Virginia 23501.

CONGRESS

INTERNATIONAL SOCIETY OF PSYCHONEUROENDOCRINOLOGY

Preliminary notice. The Eighth International Con-gress of the International Society of Psycho-neuroendocrinology will be held at the Atlanta Hil-ton Hotel, Atlanta, Georgia, 8 to 12 May 1977. Regis-tration will be on Sunday, 8 May. For information please write to Dr. Richard P. Michael, Department of Psychiatry, Emory University School of Medicine, Atlanta, Georgia 30322.

WORKSHOP

SCANNING ELECTRON MICROSCOPY FOUR DAY WORKSHOP: 21 to 24 February 1977

Bergen Community College is sponsoring a com-Bergen Community College is sponsoring a com-prehensive workshop in the theory and biological ap-plications of SEM. The program includes in-troduction to SEM techniques in specimen prepara-tion for SEM and elemental analysis, image interpretation, and the biomedical applications of SEM which include topographic, histochemical, and correlative techniques. Morning lectures will be fol-lowed by afterpoon and avaning labs which offer in correlative techniques. Morning lectures will be fol-lowed by afternoon and evening labs which offer in-tense "hands on" time, demonstrations of operation-al procedures pertinent to research problems, new techniques, and current developments in in-strumentation and specimen preparation. A variety of instruments from several manufacturers equipped with accessories, which include energy dispersive x-ray will be available. Lecturers include researchers prominent in the electron optics, specimen prepara-tion, and biomedical applications of SEM. Direct in-quiries to Community Services, Bergen Community College, Paramus, New Jersey 07652. Deadline for ap-plication: 21 January 1977.

PROGRAMS

HARVARD UNIVERSITY PUBLIC POLICY PROGRAM JOHN F. KENNEDY SCHOOL OF GOVERNMENT

Seeks a very limited number of highly qualified can-didates from scientific fields who would like to pur-sue a public service career. The program provides training enabling graduates to address a wide variety of public policy questions. The core of the program consists of courses in economics, quantitative and analytic methods, and political analysis. Applicants should have strong academic backgrounds and be able to demonstrate an interest in a public service ca-reer.

reer. For further information or application forms write to: Harvey Brooks, Ph.D., Benjamin Pierce Professor of Technology and Public Policy, Division of Engineer-ing and Applied Physics, Pierce Hall 217, Harvard University, Cambridge, Massachusetts 02138.

TRAINEESHIPS

RESPIRATORY PHYSIOLOGY TRAINEESHIPS. Postdoctoral traineeships, 1 to 3 years, available July 1977. Emphasizes training in cellular as well as classical respiratory physiology. Nine faculty mem-bers. An Equal Opportunity Employer. Write: Educa-tion Officer, Respiratory Physiology Group, Depart-ment of Physiology, School of Medicine, University of Pennsylvania, Philadelphia, Pa. 19174.

PH.D. TRAINEESHIP-To study biology and clini-cal significance of the ocular surface epithelium, in-cluding aspects of transformation of conjunctival in-to corneal cells and corneal neovascularization fol-lowing epithelial trauma. Training in cellular biology with biohemistry and ambrulous successed. Evil with biochemistry and embryology suggested. Full time position for 1 year with possible extension. Con-tact **R. Thoft, M.D., Eye Research Institute, 20 Stani-ford Street, Boston, Mass. 02114.**

FELLOWSHIPS

POSTDOCTORAL RESEARCH FELLOWSHIP for POSTDOCTORAL RESEARCH FELLOWSHIP for recent graduate with Ph.D. preferably in biochemis-try to study the mechanisms of action of mammalian collagenases with emphasis on structure function relationships. Position available immediately. In-quiries and résumés should be addressed to Dr. A. Z. Elsen, Division of Dermatology, Department of Medicine, Box 8123, Washington University School of Medicine, St. Louis, Missouri 63110. An Equal Opportunity Employer

Available **POSTDOCTORAL FEL-**LOWSHIPS in respiratory physiology with emphasis on human applications. Dr. M. Jaeger, Department of Physi-ology College of Medicine, University of Florida, Gainesville, Florida 32610.

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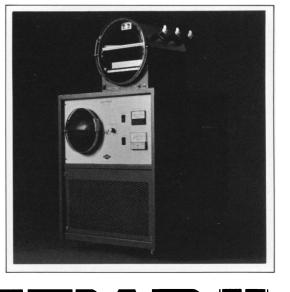
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