

Personnel Placement

Only those employers and individuals who do not discriminate on the basis of race, sex, religion, age, color, or national origin should submit Personnel Placement advertising.

POSITIONS WANTED: 40¢ per word; use of Box Number counts as 10 additional words. Minimum charge \$10. Prepayment required. This rate applies to individuals only; personnel agencies, companies, colleges, and universities take display rate for all advertising.

DISPLAY (POSITIONS OPEN, MARKET PLACE, AND SO FORTH): \$130 per inch, minimum, per insertion (1 inch is equivalent to 11 lines of 52 spaces each). Ads over 1 inch billed to nearest quarter inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information must accompany all other advertising.

COPY for ads must reach SCIENCE by Wednesday, 3-½ weeks before issue date (Friday of each week) requested. Send copy for all positions wanted ads and display ads under 5 inches to:

SCIENCE, Room 207
1515 Massachusetts Ave., NW
Washington, D.C. 20005

Send copy for display ads, 1/6 page and larger, to:

Scherago Associates, Inc.
11 West 42nd Street
New York, N.Y. 10036

BLIND AD replies should be addressed as follows:

Box (give number)
SCIENCE
1515 Massachusetts Ave., NW
Washington, D.C. 20005

POSITIONS WANTED

Biochemist-Molecular Biologist. Ph.D., 1968. Research experience in protein purification, enzyme assays, protein synthesis; independent publications and grant support. Teaching experience: graduate and medical students. Seeks academic and/or research position, industry/government. Box 459, SCIENCE. X

Clinical Biochemist. Ph.D. American Board of Clinical Chemistry-certified. Publications. Seeks position in health-oriented fields. Box 460, SCIENCE. X

Marine Biologist. Ten years of research experience in marine ecology, population dynamics of commercial mollusks, and invertebrate biology. Doctorate. More than 25 papers. With teaching experience. English, Spanish, and French. Desires full-time academic research position. Box 461, SCIENCE. X

Seeking position at **Marine Station** for research on marine invertebrates. Ph.D. 1973; postdoctoral research on behavior/biochemistry/neurophysiology of marine mollusks, East and West Coast. Seawater system and general biochemical equipment required as basic resource to continue presently funded research. Teaching, administration possible. Box 462, SCIENCE. X

Metrologist/Experimentalist. Sixteen years of experience in a national standards laboratory. High-precision measurements and maintenance of mass, density, volume, hydrometry, temperature standards, and so forth. Instrument design, maintenance, and calibration. Staff supervision. Collaboration with industry, weights and measures, customs departments. Publications. Seeks position at any level. A. Clarke, 10939 Madrona Drive, Sidney, B.C., Canada V8L 3R9. Telephone: 604-656-1738. X

Molecular Virologist. Ph.D. Five years of postdoctoral work in RNA/DNA tumor viruses. Publications in nucleic acids, reverse transcriptases, transforming DNA/messenger RNA/proteins. Interested in human cancer study at academic/research institution. Box 463, SCIENCE. X

Ophthalmologist. M.D. Sweden. Experience in ocular allergy and experimental surgery; several publications; seeks university or industrial position. Box 458, SCIENCE. X

POSITIONS WANTED

Physiologist-Botanist. Ph.D. 1975. Research includes studies on the mechanism of action of various plant growth regulators and electrophysiological investigations concerned primarily with ionic movements and activities across (and within) various plant cells. Teaching experience: biology, botany, plant physiology. Seeks research or teaching-research position starting September 1977, or earlier. Prefers Northeast. Box 464, SCIENCE. X

POSITIONS OPEN

ANATOMIST-EMBRYOLOGIST

The Department of Anatomy invites applications for a vacant faculty position.

Primary duty is to teach veterinary embryology and developmental anatomy to first-year professional students, conduct research and graduate training in vertebrate embryology and development, and take part in student advising in the subject area. Participation in laboratory instruction in other department courses can be arranged by mutual agreement.

Rank and salary are commensurate with training and experience.

Please send curriculum vitae, personal bibliography, and references to **Dr. H. E. Evans, Chairman, Department of Anatomy, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York 14853.**

An Equal Opportunity Employer

Applications are invited for the position of **ASSISTANT PROFESSOR OF BIOCHEMISTRY** at the Stanford University School of Medicine. Candidates should have demonstrated excellence in biochemical research and should have an active interest in teaching biochemistry to medical, graduate, and undergraduate students. The position will be available in September 1977. Closing date for receipt of applications is 1 December 1976. Interested candidates should send a curriculum vitae and arrange for three letters of recommendation to be sent to **Dr. I. R. Lehman, Chairman, Department of Biochemistry, Stanford University School of Medicine, Stanford, California 94305.** *Stanford University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR IN METEOROLOGY at the University of Wisconsin; available 1 December. Time split: 60 percent in Madison and 40 percent at NASA Goddard Institute of Space Studies in New York City. Prefer postdoctoral experience in global circulation modeling with emphasis on radiative-dynamical cloud processes or atmosphere-cryosphere interaction. Initial appointment for 3 years. Complete applications (curriculum vitae, professional goals statement, three letters of reference) should be received before 8 November 1976 by **Professor D. D. Houghton, Chairman, Department of Meteorology, University of Wisconsin, Madison, Wisconsin 53706.** *An Equal Opportunity Employer.*

ASSISTANT PROFESSOR OF PSYCHOLOGY. Storrs, Connecticut. Salary: \$12,000 to \$13,440. Position available September 1977 to teach undergraduate and graduate courses in physiological and/or comparative and related areas of psychology, and to perform research and guide students therein. Ph.D. with training in research methodology appropriate to the area of specialization required. Postdoctoral training, experience, and appropriate publications are desirable. Send curriculum vitae, including names of references, to **W. A. Wilson, Jr., Department of Psychology, U-20, University of Connecticut, Storrs, Connecticut 06268.** *An Equal Opportunity Employer.*

ASSISTANT RESEARCH NEUROLOGIST—The Department of Neurology at the UCLA School of Medicine has an opening for a junior scientist with completed doctorate, postgraduate training in neuroanatomy, neurophysiology, and knowledge of histochemistry for a project in the basic mechanisms of epilepsy. Applicants should submit curriculum vitae to: **Richard D. Walter, M.D., Chairman, Department of Neurology, Reed Neurological Research Center, University of California, Los Angeles, Los Angeles, Calif. 90024.** *UCLA is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority groups.*

POSITIONS OPEN

ANATOMISTS. Ph.D. Assistant or associate professor to teach histology and embryology. Research area open, would prefer person with interest in development at the electron microscopic level. Salary dependent upon qualifications. Applicants must send curriculum vitae, transcripts, and three letters of recommendation. Deadline is 1 January 1977. Send to **Dr. D. A. Ollerich, Anatomy Department, University of North Dakota, Grand Forks, North Dakota 58202.** *The University of North Dakota is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT DEAN FOR RESEARCH AND GRANTS ADMINISTRATION Kirksville College of Osteopathic Medicine

Kirksville College of Osteopathic Medicine seeks an individual possessing a doctorate in the medical sciences or professions, experience in experimental research and grants administration, and an interest in medical school administration. Employment experience with a national medical granting agency and familiarity with osteopathic medicine are desirable.

Job functions include direct administration of institutional grants, development and monitoring of internal policies concerning institutional and individual grants, and liaison with granting agencies.

Letters of interest and curriculum vitae should be submitted to the chairman of the search committee:

**Dr. Emmett S. Manley, Jr.,
Kirksville College of Osteopathic Medicine
Kirksville, Missouri 63501**

An Equal Opportunity/Affirmative Action Employer

Ph.D. BIOCHEMIST RESEARCH ASSOCIATE. Experience with protein isolation and fractionation methodology required. Work on isolation and study of amino acid transport system components from mammalian plasma membranes. Salary negotiable, commensurate with experience. Send curriculum vitae and references to: **Dr. Richard Matthews, Department of Physiological Chemistry, The Ohio State University, 333 West 10 Avenue, Columbus, Ohio 43210.**

BIOMEDICAL ENGINEER

Position available at research center located 45 miles northwest of Washington, D.C. Individual will work on an integrated program with biologists and should have M.S.E.E. with experience in the following areas:

- energy dispersive x-ray analysis
- electron microscopy
- basic knowledge of computer and computer technology
- image intensification
- pattern recognition

Qualified candidates should submit résumé to:

**M. L. Knill—Recruitment
Department 305
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Maryland 21701**

An Equal Opportunity Employer, M/F

POSTDOCTORAL FELLOWS

Three positions available at biomedical research center for Ph.D. or M.D. in identification and characterization of biological markers for malignant neoplastic disease.

Education, interest, and training should be in one of the following areas:

- Protein purification and characterization, amino acid analysis of proteins, enzyme kinetics.
- Cell membrane biology, carbohydrate or lipid biochemistry, immunological methods.
- Cell culture, chromatin isolation, nuclear protein chemistry, nucleic acid hybridization techniques.

Qualified candidates should send résumé to:

**M. L. Knill—Recruitment
Department 720
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Maryland 21701**

An Equal Opportunity Employer, M/F

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHYSIOLOGY

The University of San Diego, an independent Catholic university, has a faculty position available for a general animal physiologist beginning 1 September 1977. The position involves teaching comparative animal physiology and introductory biology. Preference will be given to candidates who are also qualified to teach invertebrate zoology.

Please write for application materials before 1 December 1976. Include with your letter of inquiry a complete curriculum vitae (including a list of publications) and the names and addresses of three referees. Write to: **Chairman, Department of Biology, University of San Diego, Alcalá Park, San Diego, California 92110.** *The University of San Diego is an Equal Opportunity Employer.*

BIOCHEMISTRY. The Chemistry Department of University College, the evening division of Rutgers University, is seeking a tenure-track assistant professor with a Ph.D. in biochemistry, strong research orientation, and a subdiscipline in physics or physical/analytical chemistry. The recipient would teach courses in his main and subdisciplines and participate in the graduate program and other affairs of the College.

Inquiries should be sent to **A. L. Nelson, University College, Wright Laboratory, Rutgers University, New Brunswick, N.J. 08903.**

An Equal Opportunity/Affirmative Action Employer.

WOODS HOLE OCEANOGRAPHIC INSTITUTION

Associate scientist: Will perform research in underwater acoustics with emphasis on propagation through layered media, and interaction with the sea floor. Desired education is a Ph.D. in physics, engineering, or applied mathematics. Should have experience with propagation in the ocean, spectral analysis of marine data, and acoustic array processing and conduct of at-sea acoustic experiments. Several months at sea in a year is not unusual. If interested, please send résumé to: **Personnel Office, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543.**

An Equal Opportunity Employer, M/F

UNIVERSITY OF CALIFORNIA, SANTA BARBARA DEPARTMENT OF BIOLOGICAL SCIENCES

Faculty position expected to be available 1 July 1977. Applications are sought from **BIOSYSTEMATISTS** who work with terrestrial vertebrates. Evolutionarily oriented biologists whose research interests involve such fields as biochemical or numerical taxonomy, cytogenetics, anatomy, or any other discipline within systematics are invited to apply. Any combination of field, laboratory, or theoretical orientation will be considered. Teaching is required at the graduate and undergraduate levels in the area of the appointee's interests. The Department has a particular interest in applicants who are competent to teach comparative anatomy but all applications will be considered. Rank and salary depend upon qualifications and experience.

Applications with curriculum vitae, list of publications, names of references, and summary of research interests should be sent to: **Chairman, Department of Biological Sciences, University of California, Santa Barbara, California 93106.** Applications must be received before 14 January 1977. Letters of reference should not be sent until requested. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

CHAIRMANSHIP DEPARTMENT OF MEDICINE UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

Applications are solicited for this position to begin in July 1977. Applicants should have well-demonstrated capabilities in teaching, medical administration, and research. Candidates or their proposers should write to **Chairman, Medicine Search Committee, Box 536, Hospital of the University of Pennsylvania, Philadelphia, Pa. 19174.** Include curriculum vitae and bibliography. *An Equal Opportunity Employer.*

POSITIONS OPEN

BOTANIST. Ph.D. Candidates (rank open, assistant professor preferred) to teach in areas of physiology, morphology, microbiology, to participate in general biology, and who are committed to excellence in undergraduate education are sought. Research opportunities. Send applications to **Biology Department, Sweet Briar College, Sweet Briar, Virginia 24595.** *Sweet Briar College is an Equal Opportunity Employer and encourages applications from women and members of minority groups.*

CELL BIOLOGIST

The Department of Zoology, University of Texas at Austin, has an opening for faculty appointment in cell biology. Research-oriented department requires capability in graduate and undergraduate teaching and the development of an outstanding research program. Send curriculum vitae, selected reprints, a prospectus of research program, and names of five references by 1 December to **Clark Hubbs, Chairman, Faculty Development Committee, Department of Zoology, University of Texas, Austin, Texas 78712.** *An Equal Opportunity/Affirmative Action Employer*

CHAIRPERSON for the Department of Health Measurement Sciences (epidemiology, biostatistics, population studies), in the School of Public Health and Tropical Medicine, Tulane University. Position requires physician-epidemiologist with an interest in but not restricted to chronic diseases, some administrative experience, and appropriate background for development of ongoing interdisciplinary educational and research programs. Interested individuals should send résumés or contact **Dr. Thomas C. Orihel, Tulane Medical Center, 1430 Tulane Avenue, New Orleans, Louisiana 70112. Telephone: 504-588-5102.** *Tulane University is an Equal Opportunity/Affirmative Action Employer.*

CHAIRMAN

The University of Michigan Medical School is seeking a physician to chair its Department of Obstetrics and Gynecology. Qualifications: outstanding clinical competence with proven abilities in teaching, research, and scholarship; sufficient national stature to recognize and respond to future directions of health care delivery in this country; appreciation of the unique doctor-patient relationship in obstetrics and gynecology and sensitivity to the psychological needs of women; previous administration experience and an unequivocal interest in the administration of an academic department. Send résumé to **Box 465, SCIENCE. Code #100BH.** *A nondiscriminatory, Affirmative Action Employer.*

DEPARTMENT OF CHEMISTRY UNIVERSITY OF CALIFORNIA, BERKELEY

Applications are invited for several anticipated positions at the level of assistant professor of chemistry, beginning fall 1977. We are interested in outstanding candidates, with exceptional promise in teaching and research, whose interests lie in any area of modern chemistry.

Candidates should submit a curriculum vitae (including a list of publications and a summary of their teaching and research objectives), and request three letters of reference, all to be sent to **Chairman, Department of Chemistry, University of California, Berkeley, Calif. 94720.** Deadline for receipt of applications is 1 January 1977. *The University of California is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

DIRECTOR OF MENTAL RETARDATION RESEARCH

Applications are invited for the position of director of the Mental Retardation Research Center in the Department of Pediatrics, University of Cincinnati College of Medicine. The administrative duties will require about one-third of the successful candidate's time, with the remainder devoted to research. The applicant should have demonstrated competence in basic research relating to mental retardation and should possess administrative skills plus an appreciation of both the basic and clinical aspects of mental retardation.

Interested persons should send a curriculum vitae and bibliography to: **Dr. Peter Dignan, Chairman of Search Committee, Cincinnati Center for Developmental Disorders, 3300 Elland Avenue, Cincinnati, Ohio 45229.**

The University of Cincinnati is an Equal Opportunity Employer.

POSITIONS OPEN

KITT PEAK NATIONAL OBSERVATORY OBSERVATORY DIRECTOR

Responsible as principal scientific officer for operation of the Observatory. The director of Cerro Tololo Inter-American Observatory, Chile, also reports to this officer. These Observatories are operated and managed by the Association of Universities for Research in Astronomy, Inc. (AURA) under contract with the National Science Foundation. The Observatory director reports to the Board of Directors of the Association through the president.

Candidate should be a scientist of stature, with an earned Ph.D. degree in astronomy or a related scientific field and should have demonstrated ability in leadership and management.

Send application or recommendation of candidates to the **Chairman of the Search Committee, Association of Universities for Research in Astronomy, Inc., P.O. Box 49290, Tucson, Arizona 85717.** All applications should be accompanied by a résumé and be received by AURA no later than 15 January 1977.

*AURA is an Equal Opportunity/
Affirmative Action Employer.*

DIRECTOR OF LABORATORIES

Full responsibility for support operations of large undergraduate teaching and graduate research programs in Chemistry Department. Supervise technical and service staff of about 29 academic personnel. Maintenance of facilities and procurement of chemicals and equipment. Assist chairman with department budgets. Salary \$17,000 or more, depending on qualifications and experience. Ph.D. in chemistry or equivalent. Please submit résumé and names of three references to:

**Professor Harold Friedman
Chairman, Department of Chemistry
State University of New York at Stony Brook
Stony Brook, New York 11794**

Equal Opportunity/Affirmative Action Employer

ORTHOPEDICS DIRECTOR: The University of Mississippi Medical Center invites applications for the position of director of the Division of Orthopedic Surgery. Candidates should send current curriculum vitae and three references to **Dr. James D. Hardy, Chairman, Department of Surgery, and Chairman, Orthopedics Search Committee, University of Mississippi Medical Center, 2500 North State Street, Jackson, Miss. 39216.** *Equal Opportunity Employer, M/F.*

LAKE ONTARIO ENVIRONMENTAL LABORATORY (LOTEL) State University of New York College at Oswego

Seeks new **DIRECTOR** to develop a multidisciplinary environmental laboratory, to supervise research, manage budgets, and procure research grants and contracts. Candidates must have Ph.D. with strong background in natural sciences, with special interest in water resource problems and research methodology; minimum of 2 years of experience in administration; college teaching experience desirable; demonstrated scholarship and grantsmanship. Competitive salary, extensive fringe benefits. *Affirmative Action Employer.* Closing date: 5 November 1976. Send curriculum vitae and names of three references, or write for additional information, to:

**LOTEL Director Search Committee
501 Calkin Hall
State University of New York College at Oswego
Oswego, New York 13126
Telephone: 315-341-4077**

One **FACULTY POSITION IN DEVELOPMENTAL PSYCHOLOGY** is available at the Institute of Child Development, University of Minnesota, beginning September 1977. The position is at the level of beginning assistant professor (completed doctoral degree). Candidates with research and teaching competence in some combination of the following: language and communication (broadly defined), atypical development, and age periods other than infancy are especially sought. Interested persons should send copies of their curriculum vitae and three letters of recommendation to **Professor Anne D. Pick, Institute of Child Development, University of Minnesota, Minneapolis, Minn. 55455.** Completed applications must be received by 15 February 1977 for adequate consideration. Salaries at the University of Minnesota are competitive. *The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS—PHARMACOLOGY

Applications are invited for openings at several levels in a department that is undergoing major reorganization and expansion. Preference will be given to candidates holding a Ph.D. or M.D. degree interested in basic aspects of membrane function and structure. Those whose interests involve other areas of molecular pharmacology are also encouraged to apply. Positions available 1 July 1977 (or 1 September 1977). Please send résumé, statement of research plans, and the names of three or more potential references to: **Frank F. Vincenzi, Acting Chairman, Department of Pharmacology SJ-30, School of Medicine, University of Washington, Seattle, Washington 98195.** *The University of Washington is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.*

FACULTY POSITION IN PHYSIOLOGY: Applicants with postdoctoral experience preferred. Research interests in neurophysiology (including neuroendocrinology) or transport, muscle, behavioral, or environmental physiology desired; other candidates qualified to teach organismic or comparative physiology will be considered. Send curriculum vitae and names and addresses of three references to: **P. J. Megrew, Department of Zoology, University of Iowa, Iowa City, Iowa 52242.**

An Equal Opportunity Employer

DEPARTMENT OF PATHOLOGY UNIVERSITY OF ARIZONA COLLEGE OF MEDICINE

Applications are solicited for faculty positions in the following areas:

Associate (or assistant) professor, clinical pathology, with a major commitment to clinical chemistry, radioimmunoassay, and laboratory data handling. Minimum requirements are certification in CP (AP-CP desirable), and 3 years of teaching experience. Current academic appointment is desirable. Position entails substantial supervisory activities and daily medical student and house officer contact.

Associate (or assistant) professor, anatomic pathology, with a major commitment to autopsy, surgical, and cytologic pathology. Research and other professional interests are encouraged. Minimum requirements are certification in AP (AP-CP desirable), and prior teaching experience. Position entails some supervisory activities and substantial commitment to house officer and medical student teaching.

Assistant professor, clinical pathology, with interest to develop special competence in hematopathology. Broader professional interests can be accommodated. Certification in AP-CP is required, and prior teaching experience is desirable.

Assistant professor with special interest in clinical pathology. Minimum requirement is satisfactory completion of an approved AP-CP program. AP-CP certification is desirable. Position entails house officer and medical student teaching, service responsibility in University Hospital, and interest in investigative activities.

Applicants should send curriculum vitae to: **Jack M. Layton, M.D., Head, Department of Pathology, The University of Arizona College of Medicine, Tucson, Arizona 85724.** *An Affirmative Action/Equal Opportunity Employer.*

MECHANICAL ENGINEERING DEPARTMENT HEAD

Applications are invited for the position of head of the Department of Mechanical Engineering, University of Minnesota. The applicant should have demonstrated leadership qualifications, an earned doctorate, well-documented research and teaching abilities, and experience in interacting with industry and government agencies.

The department with 33 full-time faculty has strong research programs in heat and mass transfer, energy conservation and solar engineering, environmental engineering and particle technology, combustion and engines, bioengineering, engineering design and control, computer graphics, industrial engineering and operations research.

This position is available on 16 June 1977. Applications with supporting materials should be submitted by 15 January 1977 to **E. Pfender, Chairman, Search Committee, Department of Mechanical Engineering, University of Minnesota, Minneapolis, Minnesota 55455.** *The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.*

15 OCTOBER 1976

POSITIONS OPEN

FACULTY POSITION—BIOMETRY: The Department of Biometry has an opening for an experienced biostatistician/epidemiologist. Applicants should have a record of effectiveness in medical education and in statistical collaboration and consulting. Effective function will require that the applicant be an experienced computer user. Level of appointment will depend upon qualifications although applicants qualified for appointment at the associate professor level are desired. Forward curriculum vitae and three letters of recommendation to **Rufus F. Walker, Jr., Ph.D., Department of Biometry, Louisiana State University Medical Center, P.O. Box 33932, Shreveport, La. 71130.** *An Equal Opportunity Employer.*

HEAD OF PHARMACOLOGY/TOXICOLOGY Purdue University School of Pharmacy and Pharmacal Sciences

Applications by 1 December are invited for this position which will become vacant 1 January 1977. Candidates should hold the Ph.D. degree in either pharmacology or toxicology and have a sensitivity for the profession of pharmacy. Candidates should be enthusiastic teachers and have demonstrated ability in research, training of predoctoral students, and the obtaining of research funds.

Administrative experience is necessary. Rank and salary are negotiable and commensurate with experience. Send résumé and the names and addresses of four individuals willing to serve as references to: **George R. Spratto, Ph.D., Chairperson, Search Committee, Department of Pharmacology and Toxicology, Purdue University, West Lafayette, Indiana 47907.** *Purdue University is an Equal Access/Equal Opportunity University.*

SCHOOL OF TEXTILES NORTH CAROLINA STATE UNIVERSITY

Applications are invited for the post of head, Department of Textile Technology, to be responsible for the activities of the faculty in education, research, and extension. Educational responsibilities exist at the bachelor's, master's, and doctoral levels. Applications should be sent to:

**Dr. M. H. Mohamed
Chairman, Nominating Committee
School of Textiles
North Carolina State University
Raleigh, North Carolina 27607**

North Carolina State University does not discriminate on the basis of race, sex, or handicap, and is an Affirmative Action/Equal Opportunity Employer.

IMMUNOLOGIST

Research position for Ph.D. and/or M.D. in a newly developing diabetes research program. Position involves full-time research in transplantation immunology and other basic immunologic problems regarding diabetes mellitus. The position available is for junior and senior scientists who will be accorded appropriate responsibilities for program development. Send application with curriculum vitae to **Daniel H. Mintz, M.D., Chief, Division of Endocrinology and Metabolism, University of Miami School of Medicine, P.O. Box 520875, Biscayne Annex, Miami, Florida 33152.** *An Equal Opportunity Employer.*

MEDICAL ENTOMOLOGIST

A permanent faculty position will be open in August 1977 for a medical entomologist in the Department of Entomology. Preference will be given to senior persons with extensive field and laboratory experiences in the area of mosquito-borne viral diseases. Salary will be commensurate with experience; rank open. Primary teaching responsibilities will be in courses for graduate students, medical students, and veterinary students. Send résumé prior to 15 December to: **Dr. Peter Price, Department of Entomology, 320 Morrill Hall, University of Illinois, Urbana, Illinois 61801.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups and women.*

MEDICAL TECHNOLOGIST—Our new 400-bed University teaching hospital has an immediate opening for a medical technologist who has had experience in tissue culture and various other laboratory techniques. The opportunity exists for joint and independent research. Send résumé to **University of Massachusetts Medical Center, Employment Office, 55 Lake Avenue North, Worcester, Mass. 01605.** *An Equal Opportunity/Affirmative Action Employer.*

RESEARCH MANAGER, MICROBIOLOGY

Ph.D. in microbiology with 7 to 10 years of industrial experience with at least 5 years in management of research projects that are new product oriented. Broad background in field of specialization and evidence of prior accomplishment by research publications and peer respect. Position will require microbiological research activities in many corporate businesses. Communications and liaison with technical, manufacturing, and marketing individuals is mandatory.

SENIOR SCIENTIST, MICROBIOLOGY

Ph.D. in microbiology with strong interest in new product and process development of hardware that involve technology of microbiological control and destruction (sanitation, disinfection, sterilization). Prime qualifications are ability to show and demonstrate creative talents and carry out assignments of technical complexity to tax his professional and continual knowledge of his field of specialty.

LABORATORY QUALITY CONTROL MANAGER

B.S. or M.S. in microbiology, chemistry, or related health care science with 5 to 7 years of industrial experience relating to quality control functions of sterility control, chemical raw material identity and control, clean or aseptic room operations, and a working knowledge of product specifications that are developed by standards making and federal regulatory agencies. Knowledge of GMP of drugs or related products is highly desirable. Prior experience in relating to FDA at the local, district, and federal level in quality control activities of microbiology and chemistry would be an asset and preferable. Location of the position is in the mid-Atlantic Coast area with several months prior orientation in the Corporate Research Department.

Box 467, SCIENCE

An Equal Opportunity/Affirmative Action Employer

DIRECTOR OF TOXICOLOGY

M. S. or Ph.D. in toxicology, pharmacology, or biochemistry preferred. Responsibilities will include direction of programs involving toxicity evaluation of industrial and consumer products through contract laboratories, food and drug application, toxicology aspects of air and water pollutants, interface with research, product development and marketing managements. Experience in industrial toxicology preferred.

Salary commensurate with educational background and experience, extensive benefits and career development. Please send your resume in confidence, including salary history to:

**W. F. Schreiber
Employee Relations Services**



**STANDARD OIL
COMPANY
(INDIANA)**

**200 E. Randolph Drive
MC 0302
Chicago, Ill. 60601**

An Equal Opportunity Employer M/F

POSITIONS OPEN

VISITING LECTURERS Department of Biology

The University of Virginia has two openings for one-semester lectureships beginning 15 January 1977, in the areas of animal behavior and either general vertebrate biology or a more specialized zoology course such as mammalogy or ornithology. Salary levels negotiable. Applicants should send no later than 10 November a curriculum vitae with references and a proposed lecture course outline to **Lecturer Search Chairman, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, Virginia 22901. An Affirmative Action/Equal Opportunity Employer.**

MEMBRANE BIOPHYSICS

Postdoctoral position available for a recent Ph.D. with a strong background in physics, physical chemistry, or surface chemistry to participate in research on the physical chemistry of planar lipid bilayer and cell membranes. The thrust of the research is to develop a quantitative description of membranes as two-dimensional solution systems. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Send curriculum vitae, copies of publications, and the names of three referees to **Dr. Stephen H. White, Department of Physiology, College of Medicine, University of California, Irvine, Calif. 92717.**

NEPHROLOGIST—The Division of Nephrology in the Department of Medicine at the University of Alabama in Birmingham has available a position at the assistant professor level. The position is open to qualified individuals at a senior level fulfilling three criteria. First, the individual must have expertise in the care and management of patients with renal disease and in the operation and administration of a hemodialysis unit. Second, the individual must have a firm commitment to teaching programs oriented to medical students, graduate students, house officers, and fellows. Finally, the individual should have a research background and be able to carry out independent research, preferably in the physiology of renal tubular transport processes. Apply to the **Division of Nephrology, University Station, Birmingham, Alabama 35294. Telephone: 205-934-3585. An Equal Opportunity/Affirmative Action Employer.** Expiration date for receipt of applications: 1 January 1977.

NEUROCHEMIST OR PHARMACOLOGIST INTERESTED IN BEHAVIOR RESEARCH

Seeking Ph.D. to work in new laboratory on clinical neurochemical studies of schizophrenia and neurotransmitter metabolite research. Opportunity for university faculty appointment, supervision, and collaboration. Send curriculum vitae and brief description of interests and experience to:

**Robert E. Becker, M.D.
Hall-Brooke Hospital
Westport, Connecticut 06880**

OIL POLLUTION RESEARCH

Applications are invited for several positions at the doctoral levels in oil pollution research. Consideration will be given to applicants with demonstrated expertise in (i) microbial degradation of petroleum, (ii) chemical analysis of hydrocarbons in the marine environment, or (iii) physiological or histopathological effects on marine organisms. Appointments are for 1 or 2 years, with possibilities for extension. Qualified applicants should send a curriculum vitae plus names of three references to: **The Director, Bermuda Biological Station for Research, St. George's West, 1-15, Bermuda.**

PHYSIOLOGICAL PSYCHOLOGIST. A position as an assistant professor in the Department of Psychology at Arizona State University is available fall 1977 for a recent Ph.D. whose principal interests are in sensory processes from an electrophysiological perspective. Applicant must be prepared to teach courses in sensory and experimental psychology. Special consideration will be given to applicants who are familiar with microelectrode techniques and whose interests are in peripheral auditory processes. Opportunities exist for collaboration in a hearing-science grant program. Send curriculum vitae and three letters of reference to **Dr. Peter Killeen, Department of Psychology, Arizona State University, Tempe, Arizona 85281. The University is an Affirmative Action/Equal Opportunity Employer.** Applications must be completed by 3 December 1976.

POSITIONS OPEN

MICROBIOLOGY TECHNICIAN. B.S. to work with fungal and bacterial pathogens of insects, under direction of Ph.D. insect pathologist. Must be familiar with culture techniques and general sterile techniques. Will maintain bacterial and fungal cultures and aid in laboratory and field evaluations of insect pathogens. Salary negotiable. **Dr. W. A. Ramoska, P.O. Box 2237, Fort Myers, Florida 33902.**

The Department of Physics and Institute for Theoretical Physics of the State University of New York at Stony Brook have some **OPENINGS** for full-time, part-time, and visiting faculty, postdoctoral, technical, and administrative personnel for 1977-78.

Candidates should submit their résumés and letters of recommendation to the **Chairman of the Department and/or Director of the Institute.**

**State University of New York at Stony Brook
Stony Brook, New York 11794**

Stony Brook is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE. Research experience in microbial enzymology, protein characterization, and peptide analysis. Starting salary: \$8,500 to \$10,000 based on experience. Available January 1977. Send curriculum vitae, reprints of publications, and three letters of recommendation by 15 November 1976 to: **Postdoctoral Search Committee, Department of Botany and Microbiology, Arizona State University, Tempe, Arizona 85281.**

POSTDOCTORAL AND FACULTY POSITIONS EXPERIMENTAL AND CLINICAL IMMUNOLOGY RUSH MEDICAL COLLEGE

The Department of Immunology of Rush Medical College is offering fellowships to individuals interested in humoral and cellular aspects of the immune response during inflammation and disease, and in clinical immunology.

Problems currently under investigation include the immunobiology of the complement system and acute phase reactants, particularly C-reactive protein; humoral and cellular responses in the acute phase of inflammation; immunological injury in infectious, rheumatoid, and renal diseases; and tumor immunology.

Appointments will be made at the level of instructor or assistant professor, depending upon experience.

For further information write **Henry Gewurz, Chairman, Department of Immunology, Rush Medical College, 1753 West Congress Parkway, Chicago, Illinois 60612.**

Rush—Presbyterian—St. Luke's Medical Center has a continuing program of Affirmative Action in the area of Equal Employment Opportunity.

POSTDOCTORAL POSITION available immediately. Isolation and analysis of membrane glycoproteins involved in angiotensin metabolism. Prior experience required in protein purification and characterization. Please send curriculum vitae and two letters of recommendation to **Dr. R. L. Soffer, Department of Molecular Biology, Albert Einstein College of Medicine, Bronx, New York 10461.**

POSTDOCTORAL POSITION with stipend is available immediately in a laboratory investigating the molecular biology of gene expression in yeast. Experience with nucleic acids is necessary for undertaking an independent investigation. Send inquiry and appropriate résumé to **Harlyn O. Halvorson, Rosensiel Basic Medical Sciences Research Center, Brandeis University, Waltham, Massachusetts 02154.**

Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL POSITIONS IN VITRO CARCINOGENESIS PROGRAM

Openings for postdoctoral research associates with strong molecular biology backgrounds to study the relationship between DNA repair, mutagenesis, and oncogenic transformation of human cells in culture by physical, chemical, and viral carcinogenic agents. Send applications, including complete curriculum vitae, reprints, and list of references to:

**Dr. Veronica M. Maher or Dr. J. Justin McCormick
Co-Directors, Carcinogenesis Laboratory
B614 Fee Hall
Michigan State University
East Lansing, Mich. 48824**

POSITIONS OPEN

POSTDOCTORAL—GENETICS: Available immediately, minimum of \$10,000 per year. Applications of combined gas chromatography/mass spectrometry and ancillary computer techniques to the study of metabolic diseases, with emphasis on those of genetic origin. Experience in biochemistry and chemical/instrumental analysis preferred. Reply, with curriculum vitae and names of three references, to **Dr. Dennis H. Smith, Department of Genetics, School of Medicine, Stanford University, Stanford, Calif. 94305.**

POSTDOCTORAL POSITION to study STRUCTURE AND FUNCTION OF VIRAL MEMBRANES

Available immediately, to study the nature of lipid-protein interactions in simple enveloped virus structure, in virus-induced cell fusion, and in the initial events of viral infection. Background in relevant areas of biochemistry, cell biology, or virology.

**Dr. John Lenard
College of Medicine and Dentistry of New Jersey
Rutgers Medical School
Department of Physiology
P.O. Box 101
Piscataway, New Jersey 08854
Equal Opportunity/Affirmative Action Employer**

PROFESSOR AND HEAD DEPARTMENT OF MICROBIOLOGY

Responsibilities to be fulfilled: direct the education, research, and training programs of the Microbiology Department in the College of Medicine.

Qualifications desired: Ph.D. and/or M.D. degree, or equivalent, and a demonstrated scholar and leader in microbiology.

Salary: appropriate for qualifications and responsibilities for a professor and head of microbiology. Excellent fringe benefits.

Employer: *the University of Iowa is an Equal Opportunity Employer.*

Application: interested persons are invited to direct inquiries and submit curriculum vitae to:

**Dr. Peter Isacson, Professor and Head
Department of Preventive Medicine
and Environmental Health
106 Medical Laboratories Building
College of Medicine
University of Iowa
Iowa City, Iowa 52242**

PUBLIC POLICY PROGRAM MANAGER

The Division of Public Sector Programs of the American Association for the Advancement of Science (AAAS) invites applications for the position of public policy program manager.

The individual, working under the direction of the division head, will:

Coordinate the work of special panels and consultants in the preparation and dissemination of reports on issues related to the research and development components of the federal budget;

Assume responsibility for carrying out background research required to define those issues, for collection and analysis of pertinent data, and, where appropriate, for writing sections of these reports;

Assist in establishing and maintaining a network of professional scientific and engineering societies with significant interests in public policy issues, particularly in relation to research and development expenditures.

Qualifications: Master's degree in science, engineering, science policy, political science, public administration, or economics with 3 years of experience in the study of research and development; or in government/industry or government/university budget analysis; or in the management of federally supported research and development; or in the study of specific science policy problems.

Located in Washington, D.C.; salary range: \$18,000 to \$24,000, depending on qualifications. Position available immediately.

Send résumé and two letters of reference to:

**Carole Dickert, Personnel Associate
American Association for the Advancement of Science
1515 Massachusetts Avenue, NW
Washington, D.C. 20005**

AAAS is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION

Recent Ph.D., strong background in biochemistry, work on protein synthesis in invertebrates. Available 1 January 1977, maximum of 18 months. \$12,000 per year. Send curriculum vitae, including two letters of reference, to: **Dr. M. Agosin, Department of Zoology, University of Georgia, Athens, Georgia 30602.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately for biochemical geneticist (or allied discipline) in active medical research laboratory. Investigational areas include (i) protein purification, (ii) immunochromatographic discrimination, and (iii) regulation of protein metabolism within inbred and hybrid animal strains. General program focus is on adaptive responses to environmental demands. Submit résumé to: **Dr. Jon Stolk, Dartmouth Medical School, Hanover, N.H. 03755.** Dartmouth College is an Equal Opportunity/Affirmative Action Employer.

Positions immediately available as **RESEARCH ASSOCIATE** or **ASSISTANT RESEARCH PROFESSOR** in the area of biochemistry with special interest in glycoproteins and/or hormone receptors. Salary commensurate with training and experience. Send curriculum vitae and two letters of reference to **Dr. O. P. Bahl, Department of Biological Sciences, 107 Cary Hall, State University of New York at Buffalo, Buffalo, New York 14214.** An Equal Opportunity/Affirmative Action Employer.

RESEARCH BIOCHEMIST

Immediate opening for Ph.D. biochemist to do research on lipid or glycolipid metabolism of gastric mucosa. Experience preferred in structure or metabolism of membranes. Send curriculum vitae to:

**Dr. M. Horowitz
Biochemistry Department
NEW YORK MEDICAL COLLEGE
Valhalla, N.Y. 10595**

Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

RESEARCH ASSOCIATE: A postdoctoral position is open, starting date flexible after 1 November 1976, for the physical study of chromosomal proteins. Please send curriculum vitae and names of references to **I. Isenberg, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, Oregon 97331.** An Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE IN MICROBIOLOGY

Position available immediately for microbiologist Ph.D. Applicants must have a strong background and working experience with pathogenic rickettsiae, in quantitative immunoelectrophoretic methods, immunoelectron microscopy, and in ultrastructural techniques. Send résumé and references to: **Dr. Roger L. Nichols, Professor and Head, Department of Microbiology, Harvard School of Public Health, 665 Huntington Avenue, Boston, Mass. 02115.**

SCIENCE WRITER

Science is looking for a scientist with interests and ability in writing to prepare material for the Research News section of the magazine. The position requires good judgment as to what is significant, ability to seek out and gather information from others, and related journalistic skills, some of which may be acquired on the job. This position offers the chance to broaden one's experience and to gain a unique perspective on research with some of the best scientists in the country as tutors.

Individuals who do not wish to follow traditional academic career patterns may find in this opportunity an alternative to postdoctoral research appointments. We are particularly interested in applicants with training in applied physics and engineering or in geophysics, but those with other physical science backgrounds are also encouraged to apply. Training to the Ph.D. and some journalistic experience are preferable. Address applications, including résumé and statement of interests, to **Allen L. Hammond, Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005.** An Equal Opportunity Employer.

POSITIONS OPEN

A **RESEARCH POSITION** in rheumatology-immunology is being sought at a junior level (non-academic) for employment in a medical school in western United States. The applicant should have experience in rheumatology and in laboratory procedures, experience relevant to immune complexes and their detection, radioimmune assay techniques, and other sophisticated or semisophisticated laboratory methodologies. Ph.D. degree required or highly desirable. An Equal Opportunity Employer.

Box 466, SCIENCE

WILDLIFE BIOLOGIST—Ph.D. in wildlife management or related field. Rank and salary open, commensurate with experience. Teaching and advising in the wildlife curriculum at the undergraduate and graduate level. Active involvement in research expected. Send résumé and three letters of reference by 31 December 1976 to **Dr. John Kelley, Division of Biology, Kansas State University, Manhattan, Kansas 66506.** An Affirmative Action/Equal Opportunity Employer.

The Department of Fisheries and Wildlife, Michigan State University, is seeking a **WILDLIFE BIOLOGIST** to fill a permanent teaching/research position at the assistant professor level. Responsibilities will include teaching an undergraduate course in biometry and a related graduate course in quantitative wildlife biology. Applicants should have the Ph.D. degree with training and competence in applied ecology including population dynamics, with additional background in mathematics, statistics, and computer science for an active program of research related to regional wildlife management problems. Curriculum vitae, transcripts, reprints of relevant publications, a full description of research interests, and names and addresses of at least three references should be submitted to:

**Professor L. W. Gysel
Department of Fisheries and Wildlife
Michigan State University
East Lansing, Michigan 48824**

by 10 December 1976. Michigan State University is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR, ENVIRONMENTAL POLICY INSTITUTE EAST-WEST CENTER

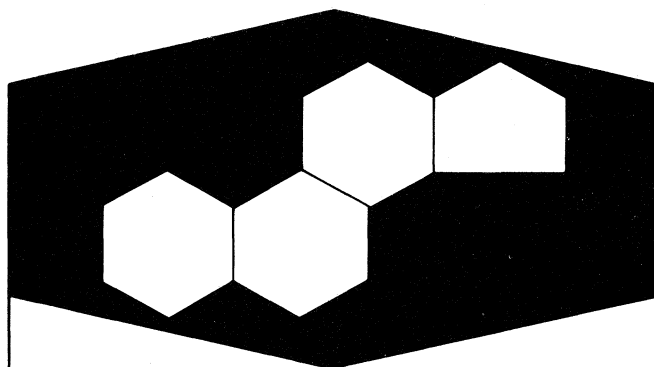
The East-West Center in Hawaii is seeking a scholar-administrator to direct the development of its East-West Environmental Policy Institute, to be initiated in fall 1977. The new institute's purpose is to promote understanding and better relations among nations East and West by generating new knowledge of, developing policy aids and educational materials on, and organizing learning about comprehensive solutions to transnational environmental problems. The director will provide intellectual and administrative leadership to a multidisciplinary, multicultural core academic staff augmented by limited-term project staff and visiting researchers, as well as both professional and clerical support staff. He or she is responsible for the cooperative design, conduct, and evaluation of team projects focused on those aspects of environmental issues and policies which are mutually consequential to nations East and West.

Requirements include significant scholarly contributions to knowledge of transnational environmental issues; contributions to the formulation of or understanding of public policy on environment; experience in leading interdisciplinary team research; at least 5 years of successful, full-time, progressively responsible experience in management of research and development organizations or units; ability in and commitment to problem-oriented team research; demonstrated interest in promotion of understanding and better relations and demonstrated ability to work with people of diverse cultural backgrounds. It is desirable for all applicants to have lived and worked successfully in a culture other than their own. *The Center encourages applications from and nomination of all qualified candidates and is an Equal Opportunity Employer.*

Salary range: U.S.\$31,309 to U.S.\$37,549 plus a 12½ percent cost-of-living allowance and 20 percent benefits package. Nominations and applications including curriculum vitae must be submitted before 5 January 1977 to

**Dr. John Brownell
Vice President for Academic Affairs
East-West Center
1777 East-West Road
Honolulu, Hawaii 96822**

Equal Opportunity Employer, M/F



Steroid Hormone Paks & Antisera for RIA

Aldosterone	Estriol
Cortisol	Estrogens (E ₁ /E ₂)
Deoxycorticosterone	Progesterone
Estradiol	Testosterone

Complete information in our RIA technical binder—yours for the asking.

NEN New England Nuclear

North Billerica, Mass. 01862
Order Entry: 617-482-9595
RIA Technical Service: 617-667-2743

NEN Canada Ltd., Lachine, Quebec; NEN Chemicals GmbH, Dreieichenhain, W. Germany.

Circle No. 236 on Readers' Service Card

POSITIONS OPEN

RESEARCH CLIMATOLOGIST: To head developing Climate Research Group 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 in related disciplines—oceanography, physics, geology, mathematics, statistics, and biology. Support is largely through federal contracts and grants; grade and salary level being dependent upon qualifications. Send curriculum vitae, recent publications, and names of references by 22 October 1976 to the **Chairman, Search Committee: Research Climatologist (S), Scripps Institution of Oceanography A-020, La Jolla, California 92093. The University of California is an Equal Opportunity/Affirmative Action Employer.**

THERMODYNAMICS GROUP/RESEARCH SUPERVISOR, GS-14, \$26,861 per annum. U.S. Department of the Interior, Bureau of Mines, Albany Metallurgy Research Center, Albany, Oregon. Group conducts research to provide accurate data concerning thermochemistry and physical constants of solids, liquids, and gases to serve as guidelines in chemical and metallurgical research and development. Must be well versed in the principles of physics, chemistry, and metallurgy. Substantial experience in physical chemistry, particularly as related to homogeneous and heterogeneous equilibria, and chemical thermodynamics, including calorimetry, is required. Good writing ability is required. Must be U.S. citizen.

Federal Civil Service career. Submit applications or résumés to **Branch of Personnel Operations, Bureau of Mines, Washington, D.C. 20241**, by 30 November 1976. For application forms and/or additional information telephone 202-634-4716. *An Equal Opportunity Employer.*

PROGRAM

The Institute of Geophysics and Planetary Physics, UCLA, conducts a **PROGRAM** of advanced interdisciplinary research in the general areas of: the origin of the universe and astrophysics; origin and physics of the solar system and planetary systems; origin, history, and physics of the earth; origin and development of life on Earth. The Institute occasionally has openings for individuals whose contributions in any of these fields have already been widely recognized by the scientific community, or who demonstrate extraordinary promise of high achievement in these fields. Appointees in the Institute hold joint appointments in appropriate academic departments. Responses from individuals whose interests and accomplishments might make them eligible for such appointments may be directed to: **Dr. C. F. Kennel, Institute of Geophysics, University of California, Los Angeles, Calif. 90024. An Equal Opportunity/Affirmative Action Employer.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS—DRUG DEVELOPMENT: Fellows will work in the development and evaluation of chemotherapeutic agents which act specifically or selectively against malignant growth. Training includes research in the chemical, biological, and cellular aspects of abnormal as well as normal growth processes.

It may include broadly based fundamental studies involving several biomedical disciplines, while other studies are concerned directly with control of neoplastic growth. Areas of concentration include synthesis and isolation, preclinical drug evaluation, and mechanisms of drug action. Training methods will include laboratory work, individual research, lectures, seminars, and conferences.

Fellowships are offered to postdoctoral candidates who have received their Ph.D. or M.D. or equivalent degree at the inception of the fellowship. Fellows will be selected at various levels of postdoctoral experience, not to exceed 5 years except in unusual cases. Only U.S. citizens or foreign nationals with permanent resident or immigrant visas will be considered for these 1-year appointments.

For applications, submit curriculum vitae and names of two references to **Dr. Dorris J. Hutchison, Coordinator—Field of Education, Sloan-Kettering Institute for Cancer Research, 1275 York Avenue, New York, N.Y. 10021. An Equal Opportunity/Affirmative Action Employer.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP. Broad spectrum of project areas including: hepatocyte-specific cell biology (related enzymology), tissue culture, metabolism of cholesterol and phospholipids, biliary micelles, lipid structural studies, nucleation of cholesterol. Background in lipid biochemistry needed. Write: **Dr. R. Thomas Holzbach, Head, GI Research Unit, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, Ohio 44106.**

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 **G. S. Kobayashi, Department of Medicine, Box 8123, Washington University School of Medicine, St. Louis, Missouri 63110.**

An Equal Opportunity Employer

LADY DAVIS FELLOWSHIP TRUST

P.O. Box 1255, Jerusalem, Israel

Fellowships for study and/or research at graduate or post-doctoral levels and visiting professorships in

1977-78

at the Hebrew University of Jerusalem and at the Technion—Israel Institute of Technology, Haifa

GRADUATE AND POST-DOCTORAL FELLOWSHIPS

ELIGIBILITY: Lady Davis Fellows will be selected on the basis of demonstrated excellence in their studies, promise of distinction in their chosen fields of specialization and qualities of mind, intellect and character.

Post-doctoral candidates shall have completed their doctoral dissertation before arrival in Israel.

All Fellowship awards are subject to the candidate's being accepted by the respective institution.

The Graduate and Post-doctoral Fellowships are tenable for a period of one or two years. In special circumstances the award may be extended for a third year. The grant is intended to defray the cost of the Fellow's travel and tuition fees and to meet reasonable living expenses.

APPLICATION: Graduate candidates may apply during their senior academic year, or after they have undertaken study in a graduate school. Post-doctoral candidates may apply at an early stage of their professional career (not later than 3 years after completion of their doctoral dissertation).

Graduate and Post-doctoral candidates, including Israelis abroad, may obtain application forms from the Lady Davis Fellowship Trust, P.O. Box 1255, Jerusalem, Israel.

VISITING PROFESSORSHIPS

These are tenable for periods from one trimester (or semester) to a year. The grant includes a professorial salary and travel. Candidates should apply in writing to the same address with full curriculum vitae and other relevant information.

DEADLINE FOR APPLICATION

Completed applications of all candidates must reach the Office of the Trust not later than January 1, 1977.

THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem offers a small number of post-doctoral fellowships for the 1977/78 academic year, in the Humanities, Social Sciences, Natural Sciences, Agriculture and Medicine. Candidates may apply at an early stage of their professional career (not later than 3 years after completion of their doctoral dissertation) to P.O. B. 1255, Jerusalem, Israel.

SYMPOSIUM

Symposium

Third Charles River International Symposium on Laboratory Animals: "Newer Laboratory Animal Models in Biomedical Research"

26-27 April 1977,

Palais de Congrès, Strasbourg, France

The sponsoring Charles River Foundation is inviting inquiries from interested participants and for contributions of significant papers on: Breeding and maintenance, spontaneous vs. developed animal models, current research utilization, research potential, biomedical research needs and ideal models. The papers will be published in English in a laboratory animal journal but simultaneous translation will be available for presentations in other languages. Participation is limited to 350 and the expenses of the 18 selected speakers will be underwritten by the Foundation. For further details of attendance and abstract forms, write to: **The Charles River Foundation, P. O. Box 430, Wilmington, MA 01887 U.S.A. or Charles River France, S.A., B.P. 29, 76410 Saint Aubin Les Elbeuf, France**, before October 30, 1976. Abstracts will be due November 15 and speakers will be notified by December 1.

MARKET PLACE

ANTIQUE SCIENTIFIC INSTRUMENTS

Microscopes, Early Associated Books. Please send \$2 (\$3 overseas) for our new, fully illustrated Catalog 113K.

HISTORICAL TECHNOLOGY, INC.

6 Mugford Street

Marblehead, Mass. 01945

STATEMENT

STATEMENT REQUIRED BY THE ACT OF 12 AUGUST 1970: SECTION 3685, TITLE 39, UNITED STATES CODE SHOWING THE OWNERSHIP, MANAGEMENT, AND CIRCULATION OF

SCIENCE published weekly on Friday except the last week in December, but with an extra issue on the fourth Tuesday in November, at 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Date of filing: 27 September 1976. This is also the address of the publisher, the editor, and the managing editor, who are, respectively, William D. Carey, Philip H. Abelson, and Robert V. Ormes.

The owner is American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Stockholders: None.

Known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities: None.

The purpose, function, and nonprofit status of this organization and the exempt status for federal income tax purposes have not changed during preceding 12 months.

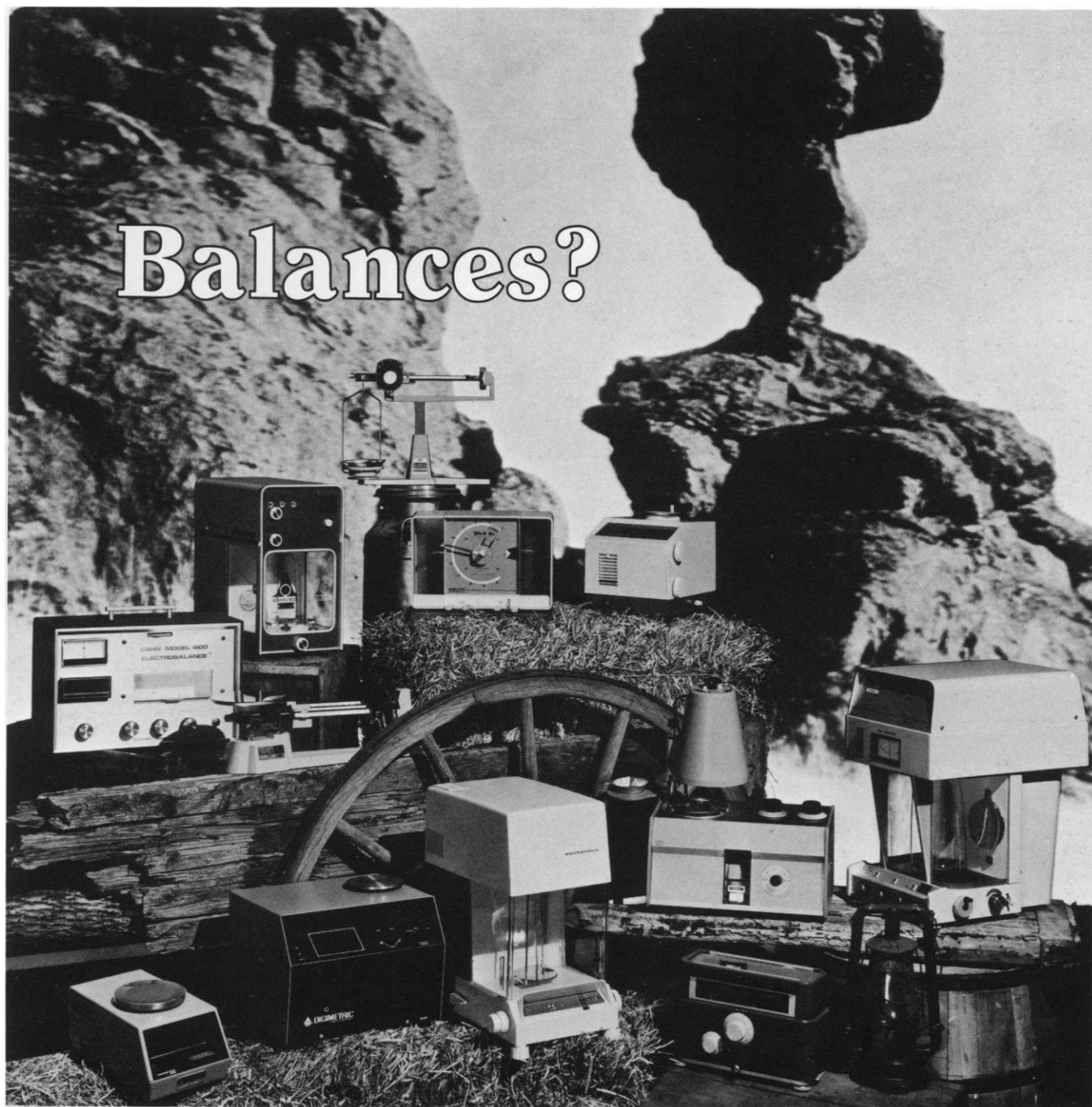
The average number of copies of each issue during preceding 12 months are (A) Total No. copies printed: 147,524; (B) Paid circulation: (1) sales through dealers and carriers, street vendors, and counter sales: 72; (2) mail subscriptions: 142,378; (C) Total paid circulation: 142,450; (D) Free distribution by mail, carrier, or other means: (1) samples, complimentary, and other free copies: 2,503; (2) copies distributed to news agents, but not sold: none; (E) Total distribution: 144,953; (F) Office use, leftover, unaccounted, spoiled after printing: 2,571; (G) Total: 147,524.

Actual number of copies of single issue published nearest to filing date are (A) Total No. copies printed: 144,959; (B) Paid circulation: (1) sales through dealers and carriers, street vendors, and counter sales: none; (2) mail subscriptions: 140,786; (C) Total paid circulation: 140,786; (D) Free distribution by mail, carrier, or other means: (1) samples, complimentary, and other free copies: 2,198; (2) copies distributed to news agents, but not sold: none; (E) Total distribution: 142,984; (F) Office use, leftover, unaccounted, spoiled after printing: 1,975; (G) Total: 144,959.

I certify that the statements made by me above are correct and complete.

(signed) **HANS NUSSBAUM**
Business Manager

SCIENCE, VOL. 194



Balances?

..we have the right model for you -- whatever your weighing need!

Shown are just twelve of the one-hundred-two-plus balances we stock. Balances by such outstanding makers as Ainsworth, Biolar, Cahn, Digimetric, Ohaus, Sartorius, Sauter, Torsion and Volland. We supply balances covering the spectrum of laboratory weighing from a particle to a mass; balances for every purpose from routine work to a host of highly specialized needs: analytical balances, animal balances, air pollution balances, assembly-line balances, digital balances, electro-balances, direct-reading balances, micro balances, macro balances, moisture balances, student balances, research balances.

Literature pertaining to your particular balance requirements will be sent on request.

S G A
SCIENTIFIC
 BLOOMFIELD, N. J. 07003

*Laboratory apparatus • instruments
 chemicals • glassware*

Branches: Boston, Mass./Elk Grove Village, Ill./Fullerton, Calif./New Haven, Conn./Philadelphia, Pa./Silver Spring, Md./Syracuse, N.Y.

Circle No. 311 on Readers' Service Card

A SPECIFIC GUIDE TO SPECTROSCOPIC INSTRUMENTS.

VUV, UV-Visible (0.3 to 2.2-Meter Focal Length) Monochromators and Spectrographs

Model 247

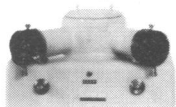
Monochromator/Spectrograph
Grazing Incidence
2.2-Meter
1-250nm



Circle No. 801 on Readers' Service Card

Model 235

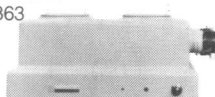
Seya-Namioka
0.5-Meter
30-1200nm



Circle No. 802 on Readers' Service Card

Model 225

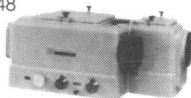
McPherson Normal Incidence
U.S. PATENT #3,090,863
1.0-Meter
30-600nm



Circle No. 803 on Readers' Service Card

Model 216.5

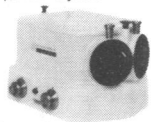
Monochromator/Spectrograph/Polychromator
McPherson Corrected Loci
U.S. PATENT #3,490,848
0.5-Meter
10cm focal plane
105-16,000nm
SNAP-IN GRATING
U.S. PATENT #3,433,557



Circle No. 804 on Readers' Service Card

Model 218

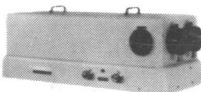
McPherson Criss-Cross Optical System
U.S. PATENT #3,409,374
0.3-Meter
105-16,000nm
SNAP-IN GRATING
U.S. PATENT #3,433,557



Circle No. 805 on Readers' Service Card

Model 2051

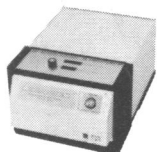
Czerny-Turner with Corrected Optics
1.0-Meter
185-26,000nm
SNAP-IN GRATING
U.S. PATENT #3,433,557



Circle No. 806 on Readers' Service Card

Model EU-700

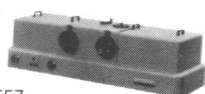
Czerny-Turner with Corrected Optics
0.5-Meter
185-4,000nm



Circle No. 807 on Readers' Service Card

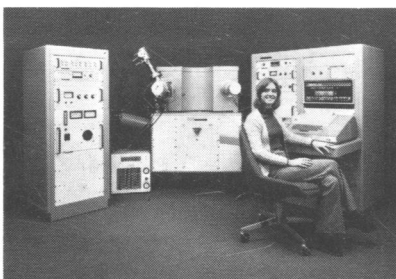
Model 285

Czerny-Turner Double Monochromator
with Corrected Optics
0.5-Meter
185-30,000nm
SNAP-IN GRATING
U.S. PATENT #3,433,557



Circle No. 808 on Readers' Service Card

Electron Spectrometer for Chemical Analysis (ESCA 36)



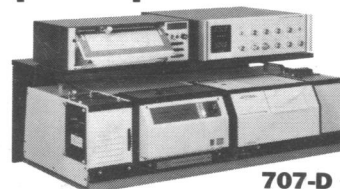
The most versatile, highest performance electron spectrometer available for the ultimate in X-ray-PES, VUV-PES and Auger spectroscopy.

The ESCA 36 Photoelectron and Auger Spectrometer

- Highest sensitivity and resolution
- Widest energy range, 0-4000eV
- Versatile sample handling capabilities
- Sample fracturing device
- Data automation
- Fully digitized—computer controlled
- Unattended operation—8 samples
- Fast sample probe, U.S. PATENT #3,967,127
- Integral sample-reaction chamber
- X-ray line width removal
- X-Y manipulator
- Microscope—sample micro positioning
- Variable temperature capability
- Gas, solid, liquid analysis
- Argon ion gun (UHV)
- VUV sources
- Electron source
- Variable angle capability
- Oil free turbo-molecular pump
- Glove box
- Multiple sample chambers
- Evaporator
- Ultra high vacuum—cryogenic pumping

Circle No. 809 on Readers' Service Card

700 Series Recording Digital UV-Visible Spectrophotometers



707-D

Digital Double-Beam UV-Visible Ratio Recording Spectrophotometer

- Classical double beam with focused optics
- Digital step scanning
- Digital readout of wavelength and data in absorbance, transmission, intensity, concentration and difference
- Box-Car integrator techniques for high signal-to-noise ratio

Circle No. 810 on Readers' Service Card

Digital, Double-Beam Ratio Recording, Scanning Spectrophotometer with Automatic Sample Positioner for Kinetics



707-K

Circle No. 811 on Readers' Service Card

Combine any one of our 700 Series Spectrophotometers:



Super 700

Combine any one of our 700 Series Spectrophotometers:

- 707-D—general purpose
 - 707-K—for kinetics
 - 721-D—alternating cell
 - 701-D—single-beam
- and CONTROL it with a Programmable Calculator/Interface. Performs complex experimental tasks automatically, repetitively and unattended.

Circle No. 812 on Readers' Service Card

GCA/McPHERSON INSTRUMENT ●●●▲

530 Main Street, Acton, Massachusetts 01720. Phone: 617-263-7733. Telex: 928435. ANS: GCA/McPHER ACTO.