

# Personnel Placement

Personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, or handicap.

**Positions Wanted:** 40¢ per word; \$4 extra for use of box number. \$10 minimum charge, per insertion. Prepayment required. This rate is available only to individuals; personnel agencies, companies, colleges, and universities take display rate for all advertising.

**Display (Positions Open, Market Place, and so forth):** \$5.80 per millimeter; \$145 minimum charge, per insertion (covers 25 millimeters on single column; 25 millimeters equals 10 lines of 50 spaces per line). No charge for use of box number. No agency commission for ads under 103 millimeters (4 inches). No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information required for all other ads.

SCIENCE is published weekly, on Friday. Copy must be received in writing by Wednesday, 3½ weeks before Friday issue date required. 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  
Telephone: 202-467-4456

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

Scherago Associates, Inc.  
1515 Broadway  
New York, N.Y. 10036  
Telephone: 212-730-1050

Blind ad replies should be addressed as follows:

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

## POSITIONS WANTED

**Cell Culturist.** M.A. Experienced in in vitro systems ranging from microbiology of infectious diseases (chlamydia, rickettsia, viruses) to developmental biology, genetics, tumor biology, and immunological techniques. Extensive teaching and research. Publications. Recommendations. Desires position in basic and/or applied research, teaching, in academic, hospital, or industry. Reply to Box 282, SCIENCE. X

**Computer Science Consultant.** B.S. in mathematics and 6 years of data processing software/hardware experience. Must relocate to Dallas, Texas, in early 1979. Box 285, SCIENCE. 9/8

**Crystallographer:** Ph.D. 1974, with postdoctoral experience; seeks permanent position working independently in x-ray crystallography. Box 278, SCIENCE. 9/1, 8

**Nutritionist.** Doctorate anticipated 1979. Public Health Nutrition, teaching and laboratory experience. Interested in nutrition and prenatal/postnatal growth. Seeks research-teaching position or postdoctoral fellowship. Box 283, SCIENCE. X

**Organic Polymer Chemist.** Ph.D. in physical organic chemistry. Experienced researcher in synthetic and polymeric chemistry for health care products. Box 284, SCIENCE. X

**Organic Ph.D.,** 1975, 2½ years postdoc. Experience in synthesis of radiopharmaceuticals, development of RIA and radiolabeling. Publications. Seeks challenging position with potential for advancement in cancer related research. Will relocate. A.C., 210 Charles Street, Waltham, Mass. 02154. X

**Pharmacologist.** Ph.D. 1973. Seeking academic or industrial position in Chicago/Midwest area. Trained in steroidal/mineral metabolism (cell fractionation and chemical analysis), kinetics (drug uptake/incorporation in cell cultures) and drug toxicity (analysis of cardiac enzyme/EKG), publications. Box 286, SCIENCE. X

Entry level position wanted immediately. Ph.D. **Pharmacologist/Organic Chemist.** Box 271, SCIENCE. 9/1, 8

**Physiologist/Bioengineer.** Ph.D. Three years of postdoctoral experience: University of Michigan and Caltech. Seven years of teaching experience in physiology, biophysics, and zoology. Seeks academic position. Box 281, SCIENCE. X

## POSITIONS OPEN

### ACADEMIC PATHOLOGISTS WHO REALLY LIKE TO TEACH, AND ARE GOOD AT IT!

Several positions now open in new pathology department, at all levels. VA Hospital service affiliation, scholarly work encouraged. Very pleasant university city of 75,000; enthusiastic faculty, attractive benefits, competitive salaries, low taxes. Reply with curriculum vitae to:

Chairman, Department of Pathology  
Marshall University School of Medicine  
Huntington, West Virginia 25701

### ACCELERATOR PHYSICIST/ENGINEER

The Physics Department of the University of Illinois at Urbana-Champaign is seeking applicants for a nontenured position to work with a 60-MeV electron microtron using a superconducting linac. The candidates must have a minimum of a B.S. degree in physics or engineering. Some experience in operating accelerators is preferred. The salary will be in the range of \$10,000 to \$18,000 depending upon individual qualifications. Duties would include setting up beams for nuclear physics experiments, scheduling of operators, and assisting with the maintenance and improvements on the accelerator. Send résumés with references to:

University of Illinois at Urbana-Champaign  
Physics Research Laboratory  
Attention: Philip Francis  
23 Stadium Drive  
Champaign, Illinois 61820

For full consideration, résumés should be received before 20 September 1978. The starting date is 15 October 1978 or as soon as possible thereafter.

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

### University of Hawaii PACIFIC ISLANDS CHAIR IN ANTHROPOLOGY

Applications are invited for the Pacific Islands Chair in Anthropology. Applicants should have a distinguished record of research in one or preferably more areas of the Pacific Islands (Polynesia, Micronesia, and Melanesia including New Guinea). The successful applicant will teach at both the undergraduate and graduate levels and will be expected to participate in university programs focusing on the Pacific. Send application letters, curriculum vitae, and names and addresses of three referees to Ben Finney, Chairman, Pacific Chair Search Committee, Department of Anthropology, University of Hawaii, Honolulu, Hawaii 96822. Applications should be received by 15 October 1978. *The University of Hawaii is an Affirmative Action/Equal Opportunity Employer.*

**AQUATIC ECOLOGIST.** Assistant Professor (new, tenure-track position) to conduct active research program in *Animal or Plant Aquatic Ecology*, to interact with others in this area, to teach introductory biostatistics one semester each year, and to offer a specialty course the other semester. May be asked to give ecology lectures in general biology. Can begin January or September 1979. Strong programs exist in aquatic biology, vector biology, and parasitology. New building, excellent biocomputing facilities, two campus lakes, and a 5400-acre natural preserve in northern Wisconsin. Submit curriculum vitae, undergraduate and graduate transcripts, publications, three letters of recommendation, and statement of research and teaching interests to: **Dr. Theodore J. Crovello, Chairman, Department of Biology, University of Notre Dame, Notre Dame, Indiana 46556.** *Notre Dame is an Affirmative Action Employer. Qualified women and minority group candidates are urged to apply.*

Position available. Assistant Professor applications are invited for a faculty position in **ATMOSPHERIC SCIENCE**. Individuals with knowledge of modern instrumentation for experimental measurements in meteorology and atmospheric science are sought. Duties also include undergraduate and graduate teaching in atmospheric science, development of a vigorous research program, advising graduate and undergraduate students in Ph.D. and masters thesis research. Interested persons should send curriculum vitae and names of three references to: **Prof. F. L. Bartman, Department of Atmospheric and Oceanic Science, Space Physics Research Laboratory, The University of Michigan, Ann Arbor, Mich. 48109.** *A nondiscriminatory, Affirmative Action Employer.*

## POSITIONS OPEN

**ANIMAL PHYSIOLOGIST,** Ph.D., opening at Swarthmore College beginning in September 1979. Candidates sought whose experience in physiology is broad but whose special interests may lie in adaptational, comparative, or neural physiology or functional morphology. Responsibilities include teaching in vertebrate physiology and specialty area, research, and participation in an introductory course. Anticipate making appointment at **Assistant Professor** level, though higher ranks will be considered for especially experienced candidates. Send curriculum vitae, statement of interests, three letters of reference, and transcripts by 15 October 1978 to **Dr. Robert E. Savage, Chairman, Department of Biology, Swarthmore College, Swarthmore, Pa. 19081.** *An Equal Opportunity Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF ANATOMY

Starting this year. Candidate should have a Ph.D. in anatomy and be able to teach neuroanatomy and help carry out laboratories in gross anatomy. Three years experience and knowledge of Spanish convenient. Will have available time to do research. Salary and rank open to negotiation. Send résumé and inquiries to **Chairperson, Department of Anatomy, School of Medicine, Catholic University of Puerto Rico, Station 6, Ponce, P.R. 00731.** *An Equal Opportunity/Affirmative Action Employer.*

Department of Chemistry at Purdue University invites applications for a tenure-track position of **ASSISTANT PROFESSOR OF BIOCHEMISTRY** starting August 1979. Candidates with a Ph.D. in biochemistry and some postdoctoral experience are preferred. Exceptional promise in teaching (both at graduate and undergraduate level) and in research are primary requirements. Curriculum vitae, a short summary of research plans, and three letters of recommendation should be sent to: **Dr. Dale W. Margrum, Head, Department of Chemistry, Purdue University, West Lafayette, Indiana 47907** by 1 December 1978. *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSORS OF BIOCHEMISTRY (TWO).** Excellence in graduate and professional teaching and ability to establish independent research program are essential. Preference for (1) physical biochemist with research experience in enzymology and (2) person with research experience in membranes or macromolecules other than nucleic acids. Please send curriculum vitae and references as soon as possible but not later than 1 November 1978 to: **W. H. Horner, Chairman, Department of Biochemistry, Georgetown University Schools of Medicine and Dentistry, Washington, D.C. 20007.** *Georgetown University is an Affirmative Action/Equal Opportunity Institution.*

**ASSISTANT PROFESSORSHIP.** The Department of Chemistry, University of Minnesota, Minneapolis, Minnesota, seeks to add a Ph.D. biological chemist (either an organic chemist with strong biological interests or a biochemist well versed in organic chemistry) as a tenure-track assistant professor in the Bioorganic and Biophysical Division beginning September 1979. Teaching responsibilities will be primarily in the areas of organic and bioorganic chemistry. A curriculum vitae (including a list of publications), a detailed summary of research interests, three letters of recommendation, and copies of undergraduate and graduate transcripts should be sent to **Professor Paul G. Gassman, Chairman, Department of Chemistry, University of Minnesota, Minneapolis, Minn. 55455.** Applications should be sent promptly and be completed by 1 December 1978. *The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.*

University of California, Irvine, Department of Pediatrics, is recruiting at the **ASSISTANT PROFESSOR** level for a **CLINICAL GENETICIST** (line or in-residence series). Requirements: M.D. degree, Board-eligibility or certification in pediatrics; strong evidence of research potential; experience teaching in academic medical center in interdisciplinary allied health programs; 1- or 2-year fellowship in clinical genetics following completion of pediatric residency. Prefer applicants with background in population or behavioral genetics. *Women and minorities are encouraged to apply. All candidates welcome.* Send curriculum vitae and three references to: **Kenneth W. Dumars, M.D., Department of Pediatrics, University of California, Irvine, Irvine, California 92717,** by 1 October 1978.

## POSITIONS OPEN

### ASSISTANT PROFESSOR

The Chesapeake Biological Laboratory of the University of Maryland Center for Environmental and Estuarine Studies seeks an assistant professor to develop a program in the chemistry of pollutants in estuarine sediments. A Ph.D. is required for this tenure-track position. Applicants should submit letters of application and résumés, and arrange for three letters of reference to be sent no later than 30 September to:

**Chairman, Search Committee**  
**Chesapeake Biological Laboratory**  
**Solomons, Maryland 20688**

*An Equal Opportunity/Affirmative Action Employer*

**ASSISTANT PROFESSOR.** University of Connecticut seeks an assistant professor to perform **endocrinological and pharmacological research** in breast and bone cancer and evaluation and development of new drugs in treatment of breast cancer and bone tumors. Position will also involve teaching medical students endocrinology and pharmacology of bone disorders. Appointment at assistant professor level, salary range \$14,000 to \$21,000. Please submit curriculum vitae to **Dr. Lawrence G. Raisz, Department of Medicine, University of Connecticut Health Center, Farmington, Conn. 06032.** *An Equal Opportunity/Affirmative Action Employer, M/F.*

**ASSISTANT PROFESSOR, FOREST GENETICS.** Ph.D. with emphasis in forest genetics. Interest and background in physiology and ecology are desirable. Primarily a research position, but involvement in advanced courses and graduate programs expected. Send résumé, transcripts, and five letters of reference by 1 October 1978 to: **Dr. G. A. Bradley, Head, Department of Horticulture and Forestry, University of Arkansas, Fayetteville, Ark. 72701.** *An Equal Opportunity Employer.*

**VIROLOGIST. ASSISTANT PROFESSOR.** Must have demonstrated excellence in research, teaching and **diagnostic virology.** Will share responsibility for teaching medical and graduate students, will conduct a strong research program in **clinical virology,** and will have significant responsibility for providing diagnostic virology services. Send curriculum vitae, list of publications, and three letters of reference to **Dr. Donald J. Merchant, Department of Microbiology and Immunology, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, Virginia 23501.** *An Equal Opportunity/Affirmative Action Employer.*

**IMMUNOLOGIST. ASSISTANT PROFESSOR.** Must have demonstrated excellence in research, teaching, and **applied immunology.** Will share responsibility for teaching medical and graduate students, will conduct a strong research program in **cellular immunology,** and, as a member of an interdisciplinary Immunology Program, will assist in providing clinical immunology services. Research and clinical expertise in transplantation immunology desirable. Send curriculum vitae, list of publications, and three letters of reference to **Dr. Donald J. Merchant, Department of Microbiology and Immunology, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, Virginia 23501.** *An Equal Opportunity/Affirmative Action Employer.*

### SENIOR (Ph.D.) BIOLOGIST

Eli Lilly and Company, a leading worldwide manufacturer of pharmaceutical products, specialized agricultural chemicals, animal health products, and cosmetics, is searching for a qualified individual who will be a member of the Cell Biology Research Department responsible in part for research in the field of nucleic acid biochemistry and molecular cloning. Responsibilities include the chemical syntheses of oligodeoxynucleotides and development of research programs in the field of recombinant DNA in collaboration with a multidisciplinary group of molecular biologists.

Applicants should have the Ph.D. degree in biochemistry or chemistry with experience in the chemical synthesis of oligonucleotides. Postdoctoral experience is preferred but not necessary.

Send résumé with salary requirements to:

**Peter D. Cullen**  
**Senior Personnel Representative**  
**Eli Lilly and Company**  
**P.O. Box 618**  
**Indianapolis, Indiana 46206**

## POSITIONS OPEN

**ASSOCIATE PROFESSOR/PROFESSOR AND CHAIRPERSON.** Department of Home Economics, to begin 1 February 1979 if possible. Provide leadership in administration of graduate/undergraduate programs in HomeEc instruction and research, conduct research in human nutrition, teach selected undergraduate/graduate courses in nutrition, advise students and participate in relevant committee work, public service, and professional organizations. Qualifications: doctorate in nutrition, at least one degree in HomeEc, commitment to HomeEc as a profession, teaching and research related to human nutrition, and leadership and administrative competence. Send résumé, official transcripts, and names and addresses of three people to be contacted for recommendations by 1 October 1978 to **Dr. Sharon Young, Chairperson Search Committee, Department of Home Economics, Pettie Hall, University of New Hampshire, Durham, N.H. 03824.** *The University is an Affirmative Action/Equal Opportunity Employer.*

**BIOCHEMIST**—Senior postdoctoral position. Requires experience in enzyme purification and characterization. Position is for 1 year, although it may be renewable. Candidates should send curriculum vitae, including summary of pertinent experience, and names of three individuals who may be contacted for references, to: **Dr. W. E. Barnett, Director, University of Tennessee—Oak Ridge Graduate School of Biomedical Sciences, Biology Division, Oak Ridge National Laboratory, P.O. Box Y, Oak Ridge, Tenn. 37830.** *An Equal Opportunity/Affirmative Action Employer.*

**BIOCHEMIST.** Part-time lecturer for team-taught high-level graduate biochemistry course, spring term of 1979. Expertise in intermediary metabolism, bioenergetics and membranes. Ph.D. and teaching experience (strong chemical approach) required. Send résumé and recommendations by 1 October to: **Dr. P. S. Coleman, Department of Biology, New York University, New York, N.Y. 10003.** *An Equal Opportunity/Affirmative Action Employer.*

### BIOPHYSICIST

Sponsored research staff. Ph.D. biophysicist with strong experience in techniques of molecular beams, mass spectrometry, and signal processing, with interest in physiological experiments to study properties of surviving tissue. Send résumés to **Prof. J. G. King, Research Laboratory of Electronics, Room 26-457, Massachusetts Institute of Technology, Cambridge, Mass. 02139.** *MIT is an Equal Opportunity Employer and has an approved Affirmative Action Plan.*

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

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

### CHAIRMAN DEPARTMENT OF OBSTETRICS AND GYNECOLOGY GEORGETOWN UNIVERSITY SCHOOL OF MEDICINE

The school is searching for a new chairperson for this important clinical department who will also be chief of the Obstetrical and Gynecologic Service of Georgetown University Hospital and director of the residency program. The department has several affiliated services including the District of Columbia General Hospital. Applicants should be experienced in the clinical specialty, teaching at the undergraduate and postgraduate levels, and in research. *Georgetown University is an Affirmative Action/Equal Opportunity Institution in employment and admissions.* Letters from interested persons or proposals for the position should be addressed to:

**John C. Harvey, M.D., Chairman**  
**Obstetrics/Gynecology Search Committee**  
**Georgetown University Hospital**  
**Washington, D.C. 20007**

## POSITIONS OPEN

**BIOSAFETY OFFICER** opening for an individual with training and experience in biological safety. Should have strong background in microbiology and biohazard containment. Will be responsible for establishing and monitoring containment of microbial agents, chemical carcinogens and poisons, DNA recombinants, and proper disposal. Radiological safety and physical plant safety are *not* included in this position.

Individual will be responsible to the administration and will work closely with the Biohazards Committee and Office of Research.

Send curriculum vitae to: **Dr. Chester A. Gleiser, Chairman, Search Committee, Room BFB-3, The University of Texas System Cancer Center, M.D. Anderson Hospital and Tumor Institute, Texas Medical Center, Houston, Texas 77030.** *An Equal Opportunity/Affirmative Action Employer.*

**CHAIRMAN of DEPARTMENT OF PHARMACOLOGY**—The University of California, San Francisco, is searching for a candidate for the position of professor and chairman of the Department of Pharmacology. Address inquiries to: **Lloyd H. Smith, Jr., M.D., Department of Medicine, Room 994-M, University of California, San Francisco, Calif. 94143.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

**DEPARTMENT CHAIRMAN.** Applications and nominations are invited for position available on or before 1 August 1979. Rank and salary open. Minimum requirements: Ph.D. in chemistry or biochemistry, research productivity, administrative ability, and a commitment to teaching excellence. The chairman is expected to provide bold leadership in developing the departmental research program and in planning a doctoral program in clinical/toxicological chemistry. The department, with 15 faculty, offers traditional programs at the B.S. and M.S. levels and nontraditional emphasis in chemical instrumentation, clinical, environmental, forensic, and toxicological chemistry. Send curriculum vitae and three letters of recommendation by 15 October 1978, to **L. S. Keyes, Screening Committee for Chairman, Department of Chemical Sciences, Old Dominion University, Norfolk, Va. 23508.** *An Affirmative Action/Equal Opportunity Employer.*

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

### CHAIRPERSON DEPARTMENT OF ANATOMY

The Pennsylvania College of Podiatric Medicine invites applications for the position of chairperson of the Department of Anatomy. We are seeking a qualified anatomist with a doctoral degree and demonstrated capabilities in teaching, administration of a small department, and research. Experience in gross anatomy and embryology desired but not required. Send applications including a curriculum vitae and the names of three references to: **Howard S. Pitkow, Ph.D., Chairman, Anatomy Search Committee, Pennsylvania College of Podiatric Medicine, 8th and Race Streets, Philadelphia, Pa. 19107.** *An Equal Opportunity/Affirmative Action Employer.*

### CURATORIAL TRAINEE/MAMMALOGY

The Department of Mammalogy of the New York Zoological Society invites qualified applicants, who should possess an advanced degree, to apply for the position of curatorial trainee in mammalogy.

Responsibilities will include establishment of care and feeding techniques, managing a large staff, designing exhibits, and writing for technical and popular audience.

Applicants should send curriculum vitae to:

**James B. White**  
**Personnel Supervisor**  
**New York Zoological Society**  
**185th Street and Southern Boulevard**  
**Bronx, New York 10460**  
*An Equal Opportunity Employer*

## POSITIONS OPEN

The University of California, Irvine, College of Medicine, is seeking a **CHAIRMAN** for the Department of Psychiatry and Human Behavior. Candidates will have demonstrated excellence in research and teaching and will have administrative experience. Candidates should be able to provide academic leadership for the department. Applications from all qualified candidates are welcome; *minorities and women are encouraged to apply*. Send curriculum vitae, before 1 December 1978, to **Calvin S. McLaughlin, Chairman of the Search Committee, Dean's Office, College of Medicine, University of California, Irvine, Calif. 92717.**

### CHAIRMAN DEPARTMENT OF RADIOLOGY

Texas Tech University School of Medicine is accepting applications for the Chairman of Radiology. Candidates must be experienced in the clinical service, teaching, and research aspects of academic radiology. The appointee will be responsible for all academic programs and faculty appointments at the four Regional Academic Health Centers in Lubbock, El Paso, Amarillo, and the Permian Basin at Odessa. Applications must be received by 1 October 1978. Please send inquiries and curriculum vitae to:

**Dr. Alexander D. Kenny, Chairman  
Radiology Chairman Search Committee  
Department of Pharmacology and Therapeutics  
Texas Tech University School of Medicine  
Lubbock, Texas 79430**

*An Equal Opportunity Employer*

### ASSISTANT DEAN OF SPECIAL STUDENT PROGRAMS

Responsible for (i) recruitment of minority and disadvantaged students; (ii) development of educational support programs for these and other enrolled medical students; (iii) administration of summer employment program for disadvantaged high school and college students interested in careers in medicine or other health professions; and (iv) imaginative program development in these areas. Candidate must have academic or professional background, preferably M.D. or Ph.D. in medical or medically related field and be eligible for a faculty appointment. Master's degree candidates will be considered if employment record compensates. Experience in minority affairs essential. Salary negotiable and commensurate with previous training and experience. Final date for accepting applications is 1 November 1978. Send curriculum vitae and references to:

**Dr. Frances L. Drew  
Associate Dean for Student Affairs  
M-252 Scaife Hall  
University of Pittsburgh  
Pittsburgh, Pa. 15261**

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

### DEAN SCHOOL OF MEDICINE

Emory University is conducting a search for qualified candidates for the position of dean of the School of Medicine of the university's Woodruff Medical Center. This position becomes vacant 1 September 1979 following the retirement in August 1979 of Dean Arthur P. Richardson. The School of Medicine is one of three academic schools involved in the Medical Center programs of teaching, research, and patient care. Other schools and facilities include the School of Dentistry, School of Nursing, Emory University Clinic, Yerkes Regional Primate Center, Emory University Hospital, Crawford W. Long Memorial Hospital, and various affiliate institutions. The Woodruff Medical Center is located on the main campus of Emory University in suburban Atlanta, Georgia. The dean is responsible to the vice president for health affairs and director of the Woodruff Medical Center and for administration of the School of Medicine and for the school's instructional and research programs. The dean also participates in the development of Woodruff Medical Center policy.

Minimum qualifications are a medical degree and demonstrated academic medical administrative, research, clinical, and teaching experience.

Interested candidates should submit a résumé and names of three professional references by 1 November 1978 to: **E. Garland Herndon, Jr., M.D., Vice President for Health Affairs and Chairman of the Search Committee, Emory University, Atlanta, Georgia 30322.**

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

Applications are invited for these positions: **DEVELOPMENTAL BIOLOGIST/GENETICIST**—area of specialization open, a strong background in biochemistry and genetics is desirable; duties include undergraduate and graduate teaching and research. **PHYSIOLOGIST**—areas of specialization open; duties include undergraduate and graduate teaching, including allied health science students and research. Postdoctoral experience preferred. Curriculum vitae, reprints, and a concise statement of research interests should be sent to: **Executive Committee, Department of Biology, Georgia State University, University Plaza, Atlanta, Georgia 30303.** Deadline for receipt of applications is 1 October 1978. *Georgia State University is an Equal Educational Opportunity Institution and is an Equal Opportunity/Affirmative Action Employer in compliance with Title IX and other Civil Rights laws.*

**DIRECTOR, CENTER FOR GREAT LAKES STUDIES (CGLS)**, University of Wisconsin-Milwaukee (UWM). CGLS, a graduate school unit, serves UWM, enabling faculty and students to engage in physical, biological, and sociological research, engineering, and management studies related to the Great Lakes. Qualifications: Ph.D. or equivalent in science or engineering; outstanding research in one or more branches of lake or ocean science or technology; leadership experience in development and management of aquatic (including interdisciplinary) programs. Duties include: teaching and research; development and promotion of programs enabling research; operation (with assistance of associate director) of the UW System Great Lakes Research Facility, regional laboratories, and research vessel base. Salary commensurate with qualifications and experience. Send applications or nominations by 1 October 1978 to: **Dean George W. Keulks, Graduate School, University of Wisconsin-Milwaukee, Milwaukee, Wisconsin 53201; telephone: 414-963-5483.** *An Equal Opportunity/Affirmative Action Employer.*

**DIRECTOR**, Research Institute of Pharmaceutical Sciences, School of Pharmacy, University of Mississippi. Requirements: doctorate in biomedical or physical sciences. Qualifications: experience in research administration with demonstrated record of funded research and publications. Responsibility: to direct the further development and growth of a dynamic multidisciplinary research institute presently supported by state, federal, and private funds. Salary: commensurate with qualifications. Available after 1 January 1979. Application deadline: 1 November. Contact: **Joe B. McCaskill, Associate Dean, Chairman, Search Committee, School of Pharmacy, University of Mississippi, University, Miss. 38677.** *Equal Opportunity Employer, M/F/H.*

**DIRECTOR OF RE-EDUCATIVE SERVICES.** To supervise and train staff in the clinical application of psycho-educative treatment model in a residential psychiatric facility for children. Requirements: graduation from the School of Psycho-Education, University of Montreal or equivalent; five or more years of superior performance as a psycho-educator in a children's residential treatment facility with at least 2 years as a supervisor; written/verbal fluency in French/English; 2 years of experience university-level training of psycho-educators and published research in the field of psycho-education. Send résumé, including bibliography of publications plus three letters of reference attesting to competency for the position (two of which are from former employers), to: **Executive Director, 845 22nd Avenue, Honolulu, Hawaii 96816.** *An Equal Opportunity Employer.*

### ENVIRONMENTAL TOXICOLOGISTS

Academic research position at the Mount Sinai School of Medicine of the City University of New York. Both basic laboratory and clinical environmental toxicology opportunities are present. Interest in biotransformation as applied to hepatic metabolism, carcinogenesis and low-level long-term exposure will be valuable. Independent research look to, as well as interdisciplinary cooperation. Please call or write to:

**Drs. Irving J. Selikoff or Hans Poper  
Environmental Sciences Laboratory  
THE MOUNT SINAI SCHOOL OF MEDICINE  
One Gustave L. Levy Plaza  
New York, N.Y. 10029  
Telephone: 212-650-6173**

*An Equal Opportunity Employer, M/F*

## POSITIONS OPEN

### DIRECTOR OF ENVIRONMENTAL HEALTH AND SAFETY University of Colorado at Boulder

Director of program being established for public/environmental health, occupational/industrial hygiene, and public/occupational safety. Qualifications: minimum master's in public health, safety management, engineering management, or related field. Significant, progressively responsible professional experience in establishing, managing, or coordinating major or comprehensive health and safety programs. Salary open. Respond by 29 September 1978 to: **Search Committee, Health and Safety Director, 303 Regent Hall, University of Colorado, Boulder, Colorado 80309.**

*An Equal Opportunity, Affirmative Action, Section 504 Employer.*

**ENGINEER** to work in Product Development Group of small, but growing, laboratory equipment company located in the New York City area. Must be innovative and capable of handling many projects simultaneously from beginning to end with little supervision. Analog and digital electronic experience necessary along with a strong mechanical background.

Background in laboratory equipment and instruments a definite plus.

Minimum experience: 5 years.

**Box 280, SCIENCE**

### FACULTY POSITIONS

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

Applications are still invited from men and women qualified in:

#### PHYSIOLOGY BIOCHEMISTRY ANATOMY

Particularly need female faculty to teach female students.

Doctorate or equivalent degree required, plus 2 years of teaching/research experience. M.D. degree required for anatomy positions.

Salary: paid in Saudi Riyals; approximate yearly equivalent in dollars given:

Professor: \$25,469 to \$33,965.

Associate professor: \$22,779 to \$28,973.

Assistant professor: \$18,570 to \$22,600.

M.D. degree commands 30 percent or 80 percent higher salary. Taught in English. No Saudi income tax. Teaching starts 15 November 1978. Free furnished housing, airfare for family of four to and from Saudi Arabia; liberal educational allowances for up to four children.

Send complete curriculum vitae plus three references to:

**Dr. Tawfik Tamimi  
Dean of the Medical Faculty  
King Faisal University  
c/o Saudi Arabian Educational Mission  
2221 West Loop South  
Houston, Texas 77027**

### TENURED FACULTY POSITION IN APPLIED GEOPHYSICS AT THE UNIVERSITY OF CALIFORNIA, BERKELEY

A faculty position is available in the Engineering Geoscience Group in the fields of applied geophysics with special emphasis on mineral exploration. Applicants should have strong quantitative backgrounds in mathematics and physics and must have demonstrated research and practical experience in the application of a wide range of geophysical techniques to the mineral and energy industry. The incumbent would be expected to teach graduate-level courses in some combination of the following areas: rock properties, potential field methods, electrical and electromagnetic methods, radiometric methods, geophysical data processing, mineral exploration economics, exploration geochemistry, and bore hole geophysical methods. *The University of California is an Affirmative Action Employer.* Inquiries should be made to **Professor R. H. Bragg, Chairman, Department of Materials Science and Mineral Engineering, University of California, Berkeley, California 94720**, and should include a résumé and names and addresses of references. This material should be received by the chairman no later than 1 November 1978.

## POSITIONS OPEN

### FACULTY POSITION

**PHYSICAL OCEANOGRAPHER** to fill vacant faculty post. Level of appointment commensurate with experience and qualifications. Applicant should have at least 5 years of experience in the planning and execution of scientific cruises. Experience in one or more of the large, international oceanographic field programs desirable. Duties include teaching graduate-level courses in physical oceanography and supervising the research of graduate students. Interested applicants should send curriculum vitae, including bibliography and two references, by 1 October 1978 to: **Professor J. E. Geisler, Chairman, Division of Meteorology and Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, University of Miami, 4600 Rickenbacker Causeway, Miami, Florida 33149.** *The University of Miami is an Affirmative Action/Equal Opportunity Employer.*

**Position: FISHERY BIOLOGIST—POPULATION DYNAMICS**, subject to university tenure rules. Department of Fisheries and Wildlife, Michigan State University.

**Date available:** 1 January 1979.

**Rank and salary:** Assistant professor. Salary commensurate with training and experience (12-month basis).

**Responsibilities:** (i) Teach an existing departmental undergraduate course in basic biology/management. (ii) Participate in the development and teaching of a senior level course in fishery biology. (iii) Develop and teach a graduate course in fish population dynamics. (iv) Conduct research on dynamics of fish populations in Michigan waters. Participation in faculty committee work, public service programs, and the advising of students is also expected.

**Qualifications:** Ph.D. in biology with major training in fish population dynamics and general quantitative biology, preferably including systems science. Post-Ph.D. experience in fisheries science desirable. Commitment to teaching, research, and public service. Evidence of ability to obtain research grants, conduct research projects, and publish findings.

**Application:** Letter of interest, résumé, three letters of reference, and examples of publications should be sent no later than 1 November 1978 to:

**Dr. Ray J. White**  
Search Committee Chairman  
Department of Fisheries and Wildlife  
Michigan State University  
East Lansing, Mich. 48824  
Telephone: 517-355-7493  
*An Equal Opportunity Employer*

**GYNECOLOGY PATHOLOGIST.** Assistant/Associate Professor. Board-certified or -eligible physician. Minimum 5 years of experience in gynecology pathology and cytology with emphasis on neoplasms and teaching. Reply prior to 15 September 1978. Direct curriculum vitae and three letters of reference to:

**J. W. Grisham, M.D.**  
Professor and Chairman  
Department of Pathology  
University of North Carolina at Chapel Hill  
Chapel Hill, North Carolina 27514

*An Equal Opportunity/Affirmative Action Employer*

### IGNEOUS GEOLOGIST Bowling Green State University

The Department of Geology invites applications for a faculty position to be filled before 1 September 1979. We are searching for a Ph.D. whose training and research are in igneous geology to direct graduate-student research and to teach courses in introductory geology, igneous petrology and petrography, optical mineralogy, and x-ray mineralogy. We prefer a person who has done and will continue to do fieldwork, and who is interested in teaching field geology (summers). The department has 11 full-time faculty members representing most areas of the geosciences, and offers B.S., B.A., and M.S. degrees. Send letter of application, résumé, including list of publications, a statement of teaching and research interests, transcripts, and three supporting letters, by 15 December 1978, to:

**Dr. J. J. Mancuso, Chairman**  
Department of Geology  
Bowling Green State University  
Bowling Green, Ohio 43403

*Bowling Green State University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

**GENETICIST.** Postdoctoral experience and/or outstanding research potential required. Undergraduate teaching in genetics and general zoology, graduate teaching in area of research competence. Position available January or July 1979; assistant professor rank. Please send biographical summary, publications, and three letters of reference to **J. C. Lucchesi, Department of Zoology, University of North Carolina, Chapel Hill, N.C. 27514**, by 1 November 1978. *An Affirmative Action/Equal Opportunity Employer.*

**INSTRUCTOR, BIOCHEMISTRY**, to team-teach biochemistry and biochemistry laboratory and conduct research on the biochemical mechanism of excitation-secretion coupling in the central nervous system. Starting salary \$14,000. Position available for 5 years. Send curriculum vitae and bibliography to: **Dr. J. A. Babitch, Chemistry Department, Texas Christian University, Fort Worth, Texas 76129**, by 30 September 1978. Postdoctoral and graduate student stipends for 1979 also available. *Texas Christian University does not discriminate on the basis of sex, religion, handicap, race, or ethnic origin.*

### MARINE ADVISORY SERVICE INDUSTRY AGENT UNIVERSITY OF DELAWARE LEWES, DELAWARE 19958

Demonstrate technical feasibility of new concepts, processes, products and application, by means of pilot plant tests. Initially responsible for the planning, organization, direction, coordination, and control of the design, development, and improvement of a controlled environment prototype for culturing bivalves. Minimum requirement: engineering M.S. (chemical, civil, or mechanical) or engineering B.S. with M.B.A. plus 4 to 7 years of industrial experience.

Mail résumé and three letters of recommendation before 15 September 1978 to **Dr. Carolyn Thoroughgood, Director, Marine Advisory Service, College of Marine Studies, University of Delaware, Newark, Delaware 19711.** *We are an Equal Opportunity/Affirmative Action Employer.*

The Research Institute of Pharmaceutical Sciences, School of Pharmacy, University, Mississippi, is seeking a **MASS SPECTROSCOPIST**. Candidates with a B.S. in pharmacy and with a Ph.D. and subsequent experience in a life science field are preferred. Salary commensurate with experience. Send biographical data, publications, and so forth to **Dr. Carlton Turner, Associate Director, Research Institute of Pharmaceutical Sciences, School of Pharmacy, University of Mississippi, University, Mississippi 38677.** Application deadline 30 September. *Equal Opportunity Employer, M/F/H.*

**THE OHIO STATE UNIVERSITY, COLLEGE OF MEDICINE, DEPARTMENT OF MEDICAL MICROBIOLOGY**, invites applications for two positions in the area of **IMMUNOLOGY**. Minimum requirement for one of the positions is an M.D. degree plus research experience. The requirement for the second position is a Ph.D. degree with postdoctoral training in **CELLULAR IMMUNOLOGY**. Some experience with animal viruses is desirable. Rank and salary will depend on qualifications. Send curriculum vitae and three letters of recommendation to: **Ronald Glaser, Ph.D., Department of Medical Microbiology, The Ohio State University, 338 West 10 Avenue, Columbus, Ohio 43210.** *Ohio State University is an Equal Opportunity Employer.*

### MEMBRANE BIOLOGIST OR DEVELOPMENTAL NEUROBIOLOGIST

The Department of Physiology and Biophysics at the University of Miami, School of Medicine, has an opening at the assistant, associate, or full professor level. We have a preference for a membrane biophysicist, membrane biochemist, or a developmental neurobiologist with research interests at the cellular or molecular level. The individual will be expected to pursue an independent research program, to participate in graduate training and in the teaching of physiology to medical students. Ample time and facilities are available for research. Those with outstanding accomplishments and high promise are encouraged to apply. All inquiries will be considered confidentially. Send curriculum vitae, list of publications, representative reprints of papers, and references to: **Faculty Search Committee, Department of Physiology and Biophysics, University of Miami School of Medicine, P.O. Box 520875, Miami, Florida 33152.** *An Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

**MEDICAL OFFICER (TWO).** Career federal government. Salary range: \$33,825 to \$47,150 depending on qualifications and experience. A medical officer provides medical review of manufacturer-conducted testing or supported research which is purported to substantiate claims of safety for their products. Send SF-171 to: **Marsha Tyler, Consumer Product Safety Commission, Division of Personnel, 5401 Westbard Avenue, Bethesda, Md. 20207.** Telephone: 301-492-6500.

**MICROSCOPIST RESEARCH ASSISTANT or ASSOCIATE**, depending on qualifications. Immediate full-time opening for an individual with experience in microscopy and photography. Responsibilities will include operation and a role in developing a special type of electron microscope (photoelectron microscope) designed to study cell surfaces and other biological membranes. Minimum requirement: B.S. degree or equivalent experience in microscopy. Experience in electron microscopy desirable. Send curriculum vitae, transcripts, and the names of three references to: **Dr. O. Hayes Griffith, Institute of Molecular Biology, University of Oregon, Eugene, Oregon 97403**, by 15 September 1978. *The University of Oregon is an Equal Opportunity/Affirmative Action Employer.*

**MOLECULAR BIOLOGY/ENDOCRINOLOGY OF VITAMIN—POSTDOCTORAL POSITIONS.** Two positions are available: one immediately and one for 1 December 1978. One position is to study the steroid hormone properties of the vitamin D metabolite, 1,25(OH)<sub>2</sub>D<sub>3</sub> viz gene expression, and RNA, protein synthesis; experience with cDNA, and mRNA isolation and translation, and so forth, is desirable. The second position is to isolate and characterize receptors for vitamin D metabolites. Experience with protein chemistry and affinity chromatography desirable. Send résumé and names of three references to: **Dr. Anthony W. Norman, Department of Biochemistry, University of California, Riverside, California 92521.** *An Equal Opportunity/Affirmative Action Employer.*

### NEUROPHARMACOLOGIST

Applications are invited from qualified individuals for a position in the Department of Pharmacology, University of Iowa. Appointment will be at the assistant professor level. The appointee must be committed to excellence in teaching and research and will participate in the department's professional and graduate student teaching activities as well as establish an independent research program of high quality. The applicant must have one or more years of postdoctoral training; preference will be given to applicants with research experience in the general area of neurochemistry/neurotransmitters (for example, peptides as neurotransmitters, immunocytochemistry, receptor isolation/identification, and so forth). Interested applicants should send their curriculum vitae and the names of three references to: **Dr. J. P. Long, Chairman, Department of Pharmacology, University of Iowa, Iowa City, Iowa 52242.** *The University of Iowa is an Equal Opportunity/Affirmative Action Employer.*

### PHARMACOLOGIST

**Pharmacologist** with established reputation and NIH-supported research program in the field of hypertension. A record of teaching excellence and training of predoctoral and postdoctoral fellows is essential. Send résumé, concise description of research program, and names of three references to:

**Dr. Harold F. Hardman**  
Department of Pharmacology and Toxicology  
MEDICAL COLLEGE OF WISCONSIN  
P.O. Box 26509  
Milwaukee, Wis. 53226  
*An Equal Opportunity/Affirmative Action Employer*

### PLANT BIOLOGY

**ASSISTANT OR ASSOCIATE PROFESSOR, GENETIC MANIPULATION OF PLANTS.** Teaching and research. Prefer applicants with strong background or interest in plant biology and with direct experience in viruses, viroids, or plasmids. Position available September 1979. Send curriculum vitae and three references to: **J. E. Varner, Department of Biology, Washington University, St. Louis, Missouri 63130.** *An Equal Opportunity/Affirmative Action Employer.*



## POSITIONS OPEN

### NEUROPHYSIOLOGIST EMORY UNIVERSITY

The Department of Biology of Emory University invites applications from persons trained in neurophysiology who are committed to research and teaching. Postdoctoral experience is preferred. Appointment will be at the assistant professor level, beginning September 1979. Responsibilities for undergraduate teaching in introductory courses and in physiology are expected, with graduate teaching and supervision of M.S.-Ph.D. students in the applicant's specialty.

Candidate should submit a curriculum vitae including a summary of teaching and research experience and interests; and arrange for three letters of reference. Application must be received by 1 November.

**Dr. Darrell R. Stokes**  
Search Committee Chairman  
Department of Biology  
Emory University  
Atlanta, Georgia 30322

*An Affirmative Action/Equal Opportunity Employer*

### NEUROPHYSIOLOGY (HUMAN) ACADEMIC POSITION

Unexpected opening; immediate availability. Evoked potentials, EEG, sleep, skin conductance; applications of neurometrics to mental health. Ongoing projects include psychopharmacology and studies of hemispheric lateralization. Successful candidate expected to contribute to the ongoing research effort as well as to develop own research program. Competence in human neurophysiology, psychophysiology, and multivariate statistics essential. Skills in electronics and minicomputer programming desirable. Salary dependent upon qualifications. Send curriculum vitae to: **Dr. Warren A. Thompson, Missouri Institute of Psychiatry, Division of the Department of Psychiatry, School of Medicine, University of Missouri-Columbia, 5400 Arsenal Street, St. Louis, Missouri 63139.**

Available immediately. An opening for a **POSTDOCTORAL ASSISTANT—A BIOCHEMIST OR A BIOCHEMICAL PHARMACOLOGIST**, experienced in enzyme characterization and purification. Apply to

**Dr. T. Gessner**  
Department of Experimental Therapeutics  
Roswell Park Memorial Institute  
Buffalo, N.Y. 14263

### POSTDOCTORAL ASSOCIATE

Postdoctoral associate in biochemistry available immediately to study mechanisms of biosynthesis of mucin glycoproteins in lung and tumor tissues. Salary dependent on experience, starting at \$12,000. Send curriculum vitae and references to: **Dr. J. Mendicino, Department of Biochemistry, University of Georgia, Athens, Georgia 30602. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available immediately for studies on the isolation and translation of messenger RNA's for lipogenic enzymes in rat liver and regulation of lipid synthesis in hepatocytes in culture. Experience in RNA isolation and characterization desirable but not essential. Send curriculum vitae and names of two references to: **Dr. Parke Flick, Department of Biological Chemistry, Wright State University, College of Science and Engineering and School of Medicine, Dayton, Ohio 45435. Wright State University is an Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL POSITIONS (FOUR)

Available in **PERINATAL BIOLOGY**, to participate in studies with a multidisciplinary research group funded by an Institutional National Research Service Award. Areas under investigation include: respiratory gas diffusion, control of growth and development, membrane transport, membrane biochemistry, chromosomal genetics, blood oxygen affinity, exercise physiology, organ blood flow, fetal and maternal endocrinology, control of respiration in adults and newborn, biochemistry and physiology of implantation, perinatal pharmacology. Candidates with M.D., Ph.D., D.Sc., or D.V.M. degree send curriculum vitae with three references and specify area of interest to: **John M. Bissonnette, M.D., Room 426, Research Building, University of Oregon Health Sciences Center, Portland, Oregon 97201**, by 15 September 1978. *UOHS is an Affirmative Action/Equal Opportunity Employer.*

## DIRECTOR OF CLINICAL SERVICES

The University of California, Irvine is seeking a Director of Clinical Services. The Director is accountable for establishing effective clinical settings for the education, service and research programs of the College of Medicine, and for insuring that the operation of hospitals and clinics is financially viable and sensitive to patient care needs.

Responsibilities include management of the University of California Irvine Medical Center, a 500-bed teaching facility, management of ambulatory programs and community clinics with 300,000 total annual visits, and coordination of a number of significant affiliations with large governmental and community hospitals. The Director administers an annual budget of more than \$70 million; staff reporting to and under the jurisdiction of the Director is approximately 2,650 employees.

The Director of Clinical Services is responsible to the Executive Vice Chancellor of the University of California, Irvine.

Requirements: demonstrated ability to successfully direct inpatient and ambulatory programs in a large medical facility; demonstrated competence in health care finance; and demonstrated knowledge of the principles, practices and trends of health care management. Required skills and knowledges include: sensitivity to patient care needs; program planning ability; skill in enhancing working relationships between academic programs and clinical operations; effective communications skills necessary to establish and maintain relationships with the community and various local and county agencies.

Candidates with management experience in a teaching hospital preferred. M.D. degree and academic experience desirable but not required.

Salary range: \$41,000 to \$59,000

Applications must be received by September 29, 1978. Submit resume in response to position CP74 to:

**Margot M. Parr, Employment Officer**  
152 Administration Building  
University of California Irvine  
Irvine, California 92717

*An Affirmative Action employer, women, minorities, handicapped persons and veterans are encouraged to apply.*

### THE UNIVERSITY OF TEXAS AT AUSTIN MARINE SCIENCE INSTITUTE DIRECTOR

The University of Texas Marine Science Institute invites applications for the position of director.

The Marine Science Institute is headquartered in Austin, Texas, and has the Galveston Geophysics Laboratory in Galveston, Texas, with extensive research programs in marine geology, marine geophysics, solid earth and planetary geophysics, and the Port Aransas Marine Laboratory in Port Aransas, Texas, with a basic and applied research program in the biological sciences, chemistry, sedimentation, physical oceanography, and engineering. The institute also has a mariculture facility in Port Aransas, Texas, and a field station in St. Croix, U.S. Virgin Islands. The institute conducts research programs throughout the world, has a multidisciplinary graduate teaching program in conjunction with the Department of Marine Studies at the University of Texas at Austin, operates three ships (165-foot, 130-foot, and 85-foot) as well as many smaller vessels, and has a thoroughly diversified marine research program as well as a solid earth and planetary geophysics program.

Candidates should possess recognized scientific credentials, must qualify for a tenure appointment in the Department of Marine Studies, and be capable of dealing with leadership and policy issues. Extensive experience in scientific research in the marine sciences is required. Administrative and teaching experience is important in the selection process. Responsibilities include providing administrative direction for academic and world-wide research programs, coordination of research directions and intellectual and philosophical leadership in continuing the development of an outstanding marine science program.

Application, personal résumé, and the names of at least three referees should be sent to: **H. Eldon Sutton, Vice President for Research, The University of Texas at Austin, Austin, Texas 78712**. The deadline for receipt of materials is 1 October 1978. Do not include materials which must be returned.

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

## Certified Industrial Hygienist

Major international firm is currently seeking a certified Industrial Hygienist having a minimum of a Bachelors degree in Science with approximately 5 years experience to work as a Consultant to our member companies. Will be responsible for standards, meeting safety factors and working within all types of Industries from Pharmaceutical to Machinery. Will also be involved with handling all types of commercial risks.

This permanent position offers an excellent starting salary, company paid benefits and potential for International travel.

*Call or send resume to:*  
**Norma Coleman at**  
**(212) 791-2735 or (212) 791-7470**

### AMERICAN HOME ASSURANCE COMPANY

**102 Maiden Lane,  
New York, NY 10005**

*Equal Opportunity Employer M F*

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS IN BIOLOGICAL OCEANOGRAPHY** start in September 1978 for a study of oceanic plankton and productivity of the Hawaiian Archipelago: (i) primary productivity and (ii) ichthyoplankton, both working with Dr. Jed Hirota. Duration is up to 2 years, the annual stipend range being \$12,000 to \$14,000. Field sampling experience in the open ocean and knowledge of analytical techniques required. Send résumé and names of three references to: **Dr. Jed Hirota, Department of Oceanography and Hawaii Institute of Marine Biology, University of Hawaii at Manoa, P.O. Box 1346, Kaneohe, Hawaii 96744.**

### POSTDOCTORAL POSITION IN PHYSIOLOGY

A position will be available 1 October 1978 to study the differentiation of transport systems in skin of amphibians. One-year appointment, renewable. Salary \$10,500. Send résumé, transcripts, and three letters of reference to: **R. H. Alvarado, Zoology Department, Arizona State University, Tempe, Arizona 85281.**

*Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITION** available now for physiological psychologist-neurobiologist interested in the physiological and psychological analysis of several animal models of psychosomatic disease [see *Am. J. Dig. Dis.* 22, 888 (1977); *Life Sci.* 22, 2245 (1978)]. Electrophysiological (nerve recording in awake animals), surgical (intracranial and visceral), and histopathologic skills desirable. Send curriculum vitae and references to: **Dr. B. Natelson, Department of Neurosciences, College of Medicine & Dentistry of New Jersey, 88 Ross Street, East Orange, New Jersey 07018.** *An Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION

Available immediately for studying the regulation of the synthesis of *Escherichia coli* replication proteins. Methodology will include gene cloning and both immunological and functional assays of replication proteins. Send curriculum vitae and three references to: **Charles McHenry, Department of Biochemistry, University of Texas Medical School, P.O. Box 20708, Houston, Texas 77025.** *Equal Opportunity Employer.*

**POSTDOCTORAL RESEARCH.** Available 1 October 1978; doctorate with expertise in connective tissue biology and chemistry required; applicant should be able to plan research protocols, use modern instruments, develop new procedures, and write scientific papers; \$12,000 annual salary; send curriculum vitae and bibliography to **Department of Biochemistry, University of Connecticut Health Center, Farmington, Conn. 06032.** *An Equal Opportunity Employer, M/F.*

**POSTDOCTORAL RESEARCH ASSOCIATE IN NEUROCHEMISTRY.** Available immediately for up to 2 years to work on pituitary-adrenal control of cerebral catecholamine metabolism. Experience in catecholamine research desirable. Send curriculum vitae and names of three references to: **Dr. Adrian J. Dunn, Department of Neuroscience, University of Florida College of Medicine, Box J-244, JHMC, Gainesville, Fla. 32610.** *An Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL/RESEARCH ASSOCIATE

To collaborate in ongoing research on insulin binding, degradation, and action. Experience in *in vitro* protein synthesizing systems, messenger RNA isolation and translation or culture techniques preferred. \$10,000 to \$14,000 per year. Send résumé and references to **Dr. P. T. Varandani, Biological Chemistry Department, Fels Research Institute, School of Medicine, Wright State University, Yellow Springs, Ohio 45387.**

### POSTDOCTORAL RESEARCH ASSOCIATES (TWO)

With experience in virology and/or immunology. One project will deal with the effect of viral infections in diabetes mellitus; the second project will study the effect of virus infection in the hypercholesteremic host. Please submit curriculum vitae and names of at least three references to **Dr. Roger M. Loria, Department of Microbiology, Medical College of Virginia, Box 847 MCV Station, Richmond, Va. 23298.**

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH ASSISTANT POSITION** available immediately for electron microscopist with experience in examination of mammalian tissues. Position involves being a member of a research team studying the pathogenesis of bacterial diseases. Salary approximately \$11,000 to \$12,000 per year. Send curriculum vitae and names of three references to: **Dr. Arnold Kreger, Department of Microbiology and Immunology, The Bowman Gray School of Medicine, Winston-Salem, N.C. 27103.** *The Bowman Gray School of Medicine is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL RESEARCH ASSOCIATE.** Recent Ph.D. to carry out research on the interactions of circular and other forms of DNA with a particular nuclease and with other enzymes of DNA metabolism. Experience in ultracentrifugation and electrophoresis of nucleic acids and nucleic acid enzymology desirable. Starting salary \$12,500 per year. Position available 1 September 1978 for 19 months with further support contingent on funding. Send curriculum vitae and names of three references to: **Dr. Horace Gray, Jr., Department of Biophysical Sciences, University of Houston, Houston, Texas 77004.** *An Equal Opportunity Employer.*

**POSTDOCTORAL RESEARCH POSITION** available September 1978 for studies on the ultrastructure and evolution of algae. The hypothesis that the chloroplasts in some groups of algae arose from the progressive reduction of an endosymbiotic eukaryotic alga will be tested. Experience in electron microscopy desirable. The position is for 2 years with a starting salary of \$11,880. Please send curriculum vitae and names of three referees to: **Dr. Sarah P. Gibbs, Department of Biology, McGill University, 1205 McGregor Avenue, Montreal, Quebec, Canada H3A 1B1.**

### POSTDOCTORAL TRAINING ASSOCIATE

Available 1 September 1978 to study the indole tripeptides of proteins using flash photolysis for 2 years. Résumé and reference letters to

**Camillo A. Ghiron  
Department of Biochemistry  
University of Missouri-Columbia  
Columbia, Missouri 65211**

*An Equal Opportunity/Affirmative Action Employer*

### PROFESSOR OF PATHOLOGY

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

### REPRODUCTIVE NEUROENDOCRINOLOGIST

Postdoctoral position: LM and EM immunocytochemical, protein and steroid RIA, and brain deafferentation and stimulation techniques available. Contact **Dr. Charles A. Blake, Department of Anatomy, University of Nebraska Medical Center, Omaha, Nebraska 68105,** or telephone: 402-541-7838. *NRSA stipend and conditions. Affirmative Action/Equal Opportunity Employer.*

**RESEARCH ASSOCIATE IN PLANT VIROLOGY-PROTOPLAST CULTURE.** Will conduct research leading to the development of techniques for the direct selection of virus resistant mesophyll cell protoplasts and the derivation of disease resistant plant materials through protoplast regeneration. Candidates must have a Ph.D. degree in plant pathology or a closely related field with research experience in plant virology. Additional expertise in protoplast culture is also desirable. Full-time position for 12 months with the possibility of extension; \$12,000. Send curriculum vitae and three letters of reference by 15 September 1978 to **Dr. James F. Shepard, Department of Plant Pathology, Kansas State University, Manhattan, Kansas 66506.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

Opportunities for career development in **REPRODUCTIVE BIOLOGY/ENDOCRINOLOGY** offered in the Department of Obstetrics and Gynecology at the Hospital of the University of Pennsylvania. These include assistant professorships for clinicians with some research background who plan an academic career, and postresidency or postdoctoral (Ph.D.) research fellowships. *An Equal Opportunity Employer.* Address inquiries to: **Luigi Mastroianni, Jr., M.D., 106 Dulles, 3400 Spruce Street, Philadelphia, Pa. 19104.**

### RESEARCH ASSOCIATE

Biochemist at the level of Ph.D. or M.Sc. with experience in protein chemistry, cell biology, and eurythmology to work with Dr. S. Niewiarowski (Specialized Center for Thrombosis Research, Temple University Health Sciences Center) on the interaction of enzymes with platelets and platelet secretory proteins. Forward résumé to **Dr. S. Niewiarowski, Thrombosis Department (OMS), Temple University Hospital, 3401 North Broad Street, Philadelphia, Pa. 19140.**

*Equal Opportunity, Affirmative Action Employer*

**ASSISTANT RESEARCH SCIENTIST/PHARMACOLOGY.** Postdoctoral fellow with background in cell biology and/or biochemistry for the study of cellular differentiation, intermediary metabolism. Experience in tissue culture and/or high-pressure liquid chromatography desirable. Send curriculum vitae and references to: **M. Kerans, Personnel Department, New York University Medical Center, 568 First Avenue, New York, N.Y. 10016.** *An Equal Opportunity/Affirmative Action Employer, M/F.*

### SCIENTIST

Broadly educated scientist/science educator with Ph.D. wanted to direct and participate in a team-taught, interdisciplinary science course in a department of natural sciences consisting of 30 full-time faculty members. Candidates from any area of the natural sciences will be considered; evidence of innovative and creative teaching and/or research must be presented. While the major responsibility for this person will be this course, occasional opportunities to teach a course in his/her own area of specialization may arise and continued scholarly productivity must be demonstrated. This appointment is contingent on state funding; it is expected to be effective in September 1979. Rank and salary for this tenure-track position are negotiable. Send curriculum vitae and three letters of reference to: **Faculty Search Secretary, College of Arts, Sciences and Letters, The University of Michigan-Dearborn, Dearborn, Michigan 48128.** *A nondiscriminatory, Affirmative Action, Title IX employer.*

### SENIOR FACULTY POSITION IN EUKARYOTIC CELL BIOLOGY

Cornell University at Ithaca is seeking applicants who have established research programs with demonstrated excellence and originality in the area of eukaryotic cell biology. A willingness and ability in teaching in cell biology is also important. Rank and salary commensurate with experience and ability. Send résumé to: **Cell Biology Search Committee, Section of Biochemistry, Molecular and Cell Biology, Wing Hall, Cornell University, Ithaca, N.Y. 14853.** *An Equal Opportunity/Affirmative Action Employer.*

The University of Texas Health Science Center at San Antonio, Department of Family Practice, seeks a **SOCIAL SCIENTIST:** primarily to participate in the teaching of family medicine to senior medical students and other medical trainees in a medical school-directed Family Health Center; secondarily to engage in research in problems of cross-cultural health-care delivery and in the training of primary health-care providers. Applicants should be committed to teaching social science concepts in a clinical medical setting.

Requirements: Ph.D. in social science.

Preferences: Background in medical social science. Background in Mexican-American culture. Bilingual (Spanish-English).

Available immediately—Salary and academic rank commensurate with experience.

Inquiries to:

**Paul C. Friedman, M.D.  
Assistant Professor and Research Coordinator  
Department of Family Practice  
The University of Texas Health Science Center  
San Antonio, Texas 78284**

*An Equal Employment/Affirmative Action Employer*

## ACRS SCIENCE AND ENGINEERING FELLOWSHIPS

The Advisory Committee on Reactor Safeguards, U.S. Nuclear Regulatory Commission is accepting applications for appointment to the ACRS Fellowship Program. Important goals of the program are: (i) to assist the ACRS in performing its functions relative to nuclear power safety; and (ii) to provide an opportunity for talented young engineers and scientists to develop an understanding of the nuclear power licensing process and expertise in the nuclear reactor safety area.

Applicants with the following backgrounds will be considered: (i) a doctorate in scientific or engineering fields with up to 5 years of postdoctoral experience; (ii) students in science or engineering who are in the final stage of their Ph.D. work; and (iii) engineers and scientists with experience in the nuclear field, who are at a stage in their careers when they can undertake a 1- to 2-year fellowship position on a full-time or part-time basis.

Most positions will be located in downtown Washington, D.C. However, a few will be located at institutions around the nation where the necessary facilities are available to perform ACRS related work.

Fellows located in Washington on a full time basis will be compensated at approximately the GS-12 level—\$21,883 to \$25,528. Fellows located at various universities will be compensated at a level competitive with other scientific and engineering graduate and postdoctoral fellowships being offered by the university.

Application for ACRS Washington Fellowships may be made on Standard Form 171, Personal Qualifications Statement. University-sponsored fellowship nominations may be submitted by letter or other means.



### U.S. Nuclear Regulatory Commission

Send applications or letters to:

ACRS/NRC, Washington, D.C. 20555  
Attention: Fellowship Program



### NOBEL CONFERENCE XIV

Gustavus Adolphus College  
Saint Peter, Minnesota 56082

"GLOBAL RESOURCES:  
PERSPECTIVES AND ALTERNATIVES"  
October 3 and 4, 1978

#### TJALLING KOOPMANS

Nobel Prize in Economics, 1975  
Yale University, New Haven, Connecticut  
*"Projecting Economic Aspects of  
Alternative Futures"*

#### IAN BARBOUR

Carleton College, Northfield,  
Minnesota  
*"Justice, Freedom and  
Sustainability"*

#### BARRY COMMONER

Washington University  
St. Louis  
*"A New Historic Passage:  
The Transition to  
Renewable Resources"*

#### GARRETT HARDIN

University of California  
Santa Barbara  
*"An Ecological View of the  
Human Predicament"*

#### LETITIA OBENG

United Nations Environment  
Program, Nairobi, Kenya  
*"Benevolent Yokes in  
Different Worlds"*

The Nobel Conference is arranged with the authorization of the Nobel Foundation, Stockholm, and with the assistance of an Advisory Committee of Nobel laureates. For reservations, write:

Nobel Conference  
Gustavus Adolphus College  
St. Peter, MN 56082

## Pharmaceutical Research Positions for Ph. D's — Ann Arbor —

As a leader in the pharmaceutical industry, we're involved in the research, development, manufacture and distribution of professional health care products. Join us!

### SECTION DIRECTOR BIOCHEMICAL PHARMACOLOGY

An attractive opportunity at the Ph. D. level for someone with a knowledge of receptor methodology to initiate and direct research in a drug discovery program. Collaborative efforts providing biochemical input to other pharmacology groups allows a multidisciplinary approach. Industrial experience with good verbal and writing skills is desirable.

### GROUP LEADER, CARDIOVASCULAR DISEASE STATES PROGRAM

The successful candidate will be a key participant in this challenging position aimed at the development of drugs useful in a variety of inter-related cardiac diseases. Responsibilities will include primary screens and the development of relevant new models/methodology for evaluating potential cardiac and non-CV drugs. Prerequisites are a Ph. D. (cardiac pharmacology/pathophysiology) and three or more years post-doctoral experience.

### GROUP LEADER, CARDIOVASCULAR ANTIHYPERTENSIVE PROGRAM

As a key participant in the antihypertensive program, the successful candidate will supervise one or two experienced scientists. Responsibilities include the secondary evaluation of interesting lead compounds from our primary antihypertensive screens. In addition, this individual would explore new approaches to antihypertensive drug discovery as a major responsibility. Ph. D. with a strong background in cardiovascular and autonomic physiology/pharmacology with specific interests in hypertension. Some industrial experience highly desirable.

### GROUP LEADER NEUROLEPTIC PROGRAM

An opportunity exists for a Ph. D. (ideally in psychopharmacology with special interests in neuroleptics and the physiological bases of psychoses). Leading the research efforts of 2-3 people in a neuroleptic (antipsychotic) program, the incumbent will be responsible for maintaining a testing program and initiating fundamental studies aimed at animal models for predicting drug activity in man. Most modern facilities are available for behavioral/operant conditioning methods.

### SENIOR SCIENTIST COGNITION ACTIVATOR PROGRAM

A position is available in our cognition activator program. Primary responsibilities include participation in the maintenance of sophisticated ongoing rodent and primate operant learning and memory test systems. The incumbent will contribute to the development of models with improved predictive value for estimating the effects of cognition activators in man. A Ph. D., or equivalent experience, with an interest in drug discovery, is a requisite. Good communication skills are important.

Join us at our modern research center in Ann Arbor. Without delay, send your resume and salary history/requirements in confidence to:

Mr. Dave Misner, Personnel Supervisor  
**WARNER-LAMBERT/PARKE-DAVIS**  
Research Laboratories  
2800 Plymouth Road  
Ann Arbor, Michigan 48106

An Equal Opportunity Employer M/F



## Warner-Lambert

## POSITIONS OPEN

### RESEARCH SCIENTISTS

An expanding biomedical research firm in suburban Washington, D.C., currently has positions available for qualified professional senior and technical personnel, in the following disciplines:

**Immunology—Immunochemistry**  
**Radio—Immunochemistry**  
**Oncogenic Virology—Cell Biology**  
**Lipid Biochemistry**

At least 2 years of postdegree experience preferred. Interested individuals should submit references, salary requirements, and curriculum vitae in complete confidence to:

**MELOY LABORATORIES, INC.**  
6715 Electronic Drive  
Springfield, Virginia 22151  
Attention: Code R30

*Equal Opportunity Employer, M/F*

# Teratologist

Excellent opportunity to join expanding Midwest ethical pharmaceutical firm. Responsibilities will include the development of a research group to perform teratology and segments 1 and 3 reproduction studies, supervision and training of technical personnel, data evaluation, and preparation of reports.

Must have 5 years of industry experience in reproduction toxicology. B.S. or M.S. degree required.

Send résumé, including salary history to,

**TOM IVEY**

**Adria Laboratories, Inc.**

582 Goodale St.  
Columbus, Ohio 43215

*An equal opportunity employer, M/F*

**SUPERVISORY TOXICOLOGIST**—Career federal government, salary ranges: \$30,750 to \$39,975, depending on qualifications and experience. A toxicologist provides leadership in assessing toxicological studies and evaluating reports of tests of potentially harmful chemicals in consumer products. Personnel qualifications (SF-171), or résumé should be sent to: **Ann S. Jordan, Division of Personnel, 5401 Westbard Avenue, Bethesda, Maryland 20207; telephone: 301-492-6500.**

**VIROLOGY.** The Cell Biology Group of the Worcester Foundation for Experimental Biology announces faculty-level positions in animal cell virology. We are seeking individuals with outstanding research potential. Inquiries should be directed to Drs. Ronald Luftig, Harriet Robinson, or Thoru Pederson through the **Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Massachusetts 01545. The Worcester Foundation for Experimental Biology is an Affirmative Action, Equal Opportunity Employer.**

## FELLOWSHIPS

### NATIONAL RESEARCH SERVICE AWARD FELLOWSHIPS IN LUNG BIOCHEMISTRY OR ANATOMY

A few NIH postdoctoral fellowships for up to 3 years are available to study lung cell biology including biochemistry and ultrastructure. Excellent background in a basic science, medicine, or veterinary medicine is essential. Participating faculty are in departments of anatomy, biochemistry, medicine, and physiology. Inquiries, curriculum vitae, and names of three references to **Donald Massaro, M.D., University of Miami School of Medicine, P.O. Box 520875, Miami, Florida, 33152. An Equal Opportunity Employer.**

## FELLOWSHIPS

### HEISER FELLOWSHIP PROGRAM FOR RESEARCH IN LEPROSY POSTDOCTORAL RESEARCH FELLOWSHIPS

Fellowships available to support beginning biomedical research training in leprosy. Applicants should have M.D., Ph.D., or equivalent degree and be at early stage of postdoctoral training. Applications by 1 February for fellowships to be activated June–December 1979. For information: **Heiser Fellowship Program for Research in Leprosy, 1230 York Avenue, New York, New York 10021.**

### FELLOWSHIP IN DIABETES RESEARCH

Postdoctoral fellowships relating to cell biological approaches to diabetes research are available in the Department of Pathology to qualified M.D.'s and Ph.D.'s. Previous training for M.D.'s in any medical field. Projects involve biochemical, morphological, immunological, and tissue culture techniques relating to insulin secretion, islet transplantation, the mechanism of insulin action, susceptibility genes in diabetics, pituitary hormone secretion, basement membrane and vascular function, and islet structure and function. Send responses and curriculum vitae to: **Leonard Jarrett, M.D., Professor of Pathology and Medicine, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, Mo. 63110.**

### POSTDOCTORAL FELLOWSHIPS IN ALLERGIC DISEASES

Research positions for holders of Ph.D., M.D., or equivalent degrees are available immediately for studies of allergen chemistry, functions of eosinophils, biosynthesis of homocytotropic antibodies and their role in animal and in human diseases, especially due to parasites, and mechanisms of inflammation of the respiratory tract and skin. Combination with advanced clinical training in allergy, immunology, and dermatology possible. Stipends begin about \$14,000. Applicants must be U.S. citizens, non-citizen nationals, or hold an immigrant visa. Contact: **Gerald Gleich, M.D., Mayo Foundation, Rochester, Minn. 55901. Telephone: 507-184-2511. Mayo is an Equal Opportunity/Affirmative Action Institution.**

**POSTDOCTORAL FELLOWSHIP** immediately available for recent graduate with experience in respiratory physiology; 2 years, starting fall 1978. Acid-base/hypoxia effects on respiratory gas exchange/oxygen transport. Send curriculum vitae, three references (directly by referees), and letter stating career goals to: **Dr. S. F. Sullivan, University of California, Los Angeles, School of Medicine, Los Angeles, Calif. 90024. Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL FELLOWSHIPS FOR RESEARCH TRAINING IN HYPERTENSION

Fellowships are available for postdoctoral hypertension to individuals with the M.D. or Ph.D. degree starting January 1979. This multidisciplinary training program provides opportunities for research in pharmacological, physiological, and biochemical approaches to cardiovascular, renal, neural, and endocrine mechanisms in hypertension.

For further information contact:

**Dr. E. G. Schneider**  
**University of Tennessee Center for Health Sciences**  
874 Union Avenue  
Memphis, Tennessee 38163

*An Equal Opportunity/Affirmative Action Employer*

### POSTDOCTORAL FELLOWSHIP

Isolation and characterization of puff specific RNP particles or SEM localization of polytene chromosomal proteins. Immunology training desirable. Send curriculum vitae, references (three), and list of publications to:

**Dr. Tom Brady**  
**Department of Biological Sciences**  
Texas Tech University  
Lubbock, Texas 79409

**NEUROSCIENTIST. POSTDOCTORAL FELLOWSHIP** at Harvard University Department of Neurology available immediately. Must be U.S. citizen or immigrant. Salary: \$10,000 to \$13,000. Will concentrate on connections of association cortex in monkeys. Send curriculum vitae and two letters of reference to: **Deepak N. Pandya, M.D., Neurological Unit, Beth Israel Hospital, 330 Brookline Avenue, Boston, Mass. 02215.**

## FELLOWSHIPS

### POSTDOCTORAL FELLOWSHIP

Position available in area of developmental neurobiology, with research focused on morphological studies of abnormal brain development. Experience in electron microscopy desirable. Send curriculum vitae and names of three references to:

**Dr. Ian S. Zagon**  
**Department of Anatomy**  
**The Milton S. Hershey Medical Center**  
Hershey, Pa. 17033

**POSTDOCTORAL RESEARCH FELLOWSHIP.** Interdisciplinary research aimed to improve air safety by finding how the vision of outstanding pilots differs from average vision. Based in Halifax, the fellow will develop portable electronically controlled visual displays and travel round U.S. Air Bases to apply new tests of visual perception to pilots. Practical electronics capability essential. Require Ph.D. in EE, psychology (psychophysics), or physics. Fellowships also available in application of visual and auditory psychophysics and evoked potential recording to clinical problems, working with adults and/or children (multiple sclerosis, amblyopia, glaucoma, deafness, head injury). Details from **Dr. D. Regan, Research Unit in Applied Psychology, Dalhousie University, Halifax, Canada B3H 4J1.**

## SCIENTIFIC EXCHANGE

### SCIENTIFIC EXCHANGES WITH U.S.S.R. AND EASTERN EUROPE

**Commission on International Relations**  
(U.S.S.R./E.E.)

**National Academy of Sciences**  
2101 Constitution Avenue, Washington, D.C. 20418

Applications are invited from American scientists interested in professional visits (1 to 12 months) between September 1979 and August 1980 in the U.S.S.R., Bulgaria, Czechoslovakia, German Democratic Republic, Hungary, Poland, Romania, and Yugoslavia. Applicants must be U.S. citizens and have a doctoral degree in the natural or social and behavioral sciences. Deadline for completed applications is 17 November 1978.

## TRAINEESHIPS

**POSTDOCTORAL TRAINEESHIP** in epidemiology and biostatistics related to ophthalmology and vision research at major medical center. Two-year joint program with Harvard School of Public Health, leading to a master of science degree in epidemiology. Supported by an NIH training grant. Send curriculum vitae to: **Dr. Bernard Schwartz, Chairman and Professor, Department of Ophthalmology, Tufts New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111. An Equal Opportunity Employer, M/F.**

### LABORATORY MEDICINE TRAINING

Applications are now being considered for internship and residency positions in Laboratory Medicine at Barnes Hospital and Washington University School of Medicine. This is a 3- to 5-year program, depending on background of candidates, leading to board eligibility in clinical pathology. All trainees are involved in service, clinical interactions, and basic or applied research. Several residency positions are available at advanced levels for individuals who have completed basic pathology or clinical training and seek subspecialty training in clinical chemistry, immunology, microbiology or blood banking, and histocompatibility. Address inquiries to: **Leonard Jarrett, M.D., Professor of Pathology and Medicine, Head, Division of Laboratory Medicine, Washington University School of Medicine, 660 South Euclid Ave., St. Louis, Mo. 63110.**

## MARKET PLACE

# MINIPIGS

For Use in Biomedical Research

**Vita Vet Laboratories**

Marion, Indiana  
Telephone: 317-668-8988





## THE NEW SOLAR PHYSICS

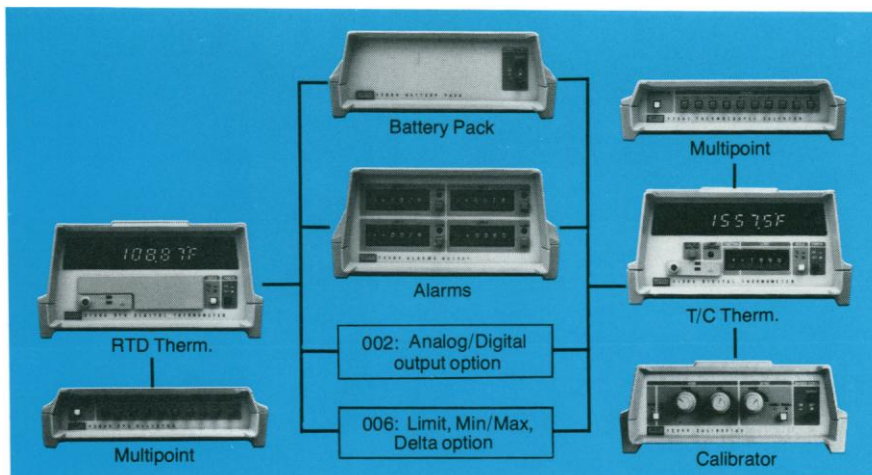
edited by  
**John A. Eddy**

Eminent scholars summarize the four major developments in solar physics that have radically altered our concepts of the sun.

**AAAS Selected  
Symposium 17**  
\$17.50



Order directly from:  
**WESTVIEW PRESS**  
5500 Central Avenue  
Boulder, Colorado 80301  
Frederick A. Praeger, Publisher



### TemPak™: First $\mu$ P-based temperature measuring system.

TemPak is our new approach to precision temperature measurement. In fact, TemPak offers hundreds of ways of combining RTD and thermocouple thermometers and accessories for the ultimate in flexibility, accuracy and economy.

Start with the 2180A for RTD inputs. With industry-leading accuracy, and capability of accepting six different RTD types.

For thermocouples (five types for each of two models—JKTCR or JKERS), the 2190A thermometer's a best buy.

Both 2180A and 2190A feature °C/°F conversion standard at \$695.

System flexibility starts with the RTD or thermocouple multi-point input accessories, for 10 or more inputs each. There's also an alarms module for limits and control, and a rechargeable battery pack.

To keep other thermocouple thermometers up to your Fluke quality standard, an exclusive calibration module completes the accessory line.

Several options add to your performance, and all accessories/models "stack and latch" together for convenience and portable accuracy.

CALL (800) 426-0361\*, TOLL FREE, or write: John Fluke Mfg. Co., Inc.,  
P.O. Box 43210, Mountlake Terrace, WA 98043. Prices U.S. only.



\*Alaska, Hawaii, Washington residents please call (206) 774-2481.

3306-8005



Photomicrograph, brain section, neurons.

This new Olympus Series embodies all the major advances of our top-of-the-line microscopes, scaled to the needs of instructor and student alike.

The specially coated binocular observation tube reduces light loss to insignificance. The result: a vastly brighter image that offers such advanced microscopic capabilities as phase contrast and darkfield observation, using standard illumination.

Three models are offered: CHA with built-in 6V., 10 Watt halogen lamp; CHB with built-in 110V., 30 Watt tungsten lamp; CHC with 110V., 20 Watt substage illuminator.

And Olympus CH versatility continues: dual observation, Hoffman Modulation Contrast, phase contrast, darkfield, vertical illumination, drawing and polarizing attachments... and many more options now made affordable by Olympus.

To fully appreciate the workmanship, capability and value of the CH Series, ask your Olympus dealer for a demonstration. Or write for more information to: Olympus Corporation of America, 4 Nevada Drive, New Hyde Park, New York 11040.



## The Olympus CH Series.

Now, three high transmission models for learning/teaching needs.

In Canada: W. Carsen Co., Ltd., Ontario.





# COMBATING THE #1 KILLER

## The SCIENCE Report on Heart Research

Jean L. Marx and Gina Bari Kolata

Cardiovascular diseases — diseases of the heart and blood vessels — are the leading cause of death in this country. They afflict more than 29 million people and are responsible for almost a million deaths per year in the United States alone. The American Heart Association estimates that the total economic costs of these diseases in 1978 will be in excess of \$28 billion.

Medical scientists would like very much to know the causes of cardiovascular diseases. This knowledge would help prevent the diseases and reduce the death rate. But the causes are still eluding investigators despite vast expenditures of time and money.

COMBATING THE #1 KILLER, based on a series of award-winning articles\* in SCIENCE Magazine, examines some of the recent research on cardiovascular diseases, with special emphasis on progress being made in understanding the biological mechanisms underlying the diseases.

Through interviews with the leading researchers in the health professions, Marx and Kolata investigated the current efforts now being made to deal with the epidemiology of heart disease, its diagnosis, its relationship to an individual's life-style and age, the most promising present and projected treatment strategies, the biochemical and clinical research in progress, and the ethical problems which may confound the results of any research which involves human patients.

COMBATING THE #1 KILLER — valuable precisely because its main focus is on key research currently in progress.

COMBATING THE #1 KILLER — a direct, unbiased report with information for all investigators in the field, scientists generally, makers of public policy, and the general public at large.

ORDER YOUR COPY NOW — and investigate the details that you ought to know about heart disease and the steps you could take to prevent it.

— Casebound \$17.00

— Paperbound \$ 7.50

AAAS Members 10% discount

Send your name and address to  
American Association for the Advancement of Science  
Department B-1  
1515 Massachusetts Avenue, NW  
Washington, DC 20005

\*American Heart Association Blakeslee Award for series of nine articles in SCIENCE on cardiovascular diseases.