

## BOOKS RECEIVED

(Continued from page 434)

**Minerals of the World.** A Field Guide and Introduction to the Geology and Chemistry of Minerals. Charles A. Sorrell. Illustrated by George F. Sandström. Golden Press (Western Publishing), Racine, Wis., 1973. 280 pp. Cloth, \$5.95; paper, \$3.95. Golden Field Guide Series.

**Molecular Microbiology.** J. B. G. Kwapinski, Ed. Wiley, New York, 1974. x, 484 pp., illus. \$27.50. A Wiley Biomedical-Health Publication.

**Prostaglandin Abstracts.** A Guide to the Literature. Vol. 1, 1906-1970. Richard M. Sparks, Ed. IFI/Plenum, New York, 1973. xii, 498 pp. \$26.

**Protamines.** T. Ando, M. Yamasaki, and K. Suzuki. Springer-Verlag, New York, 1973. x, 114 pp., illus. \$18.50. Molecular Biology, Biochemistry and Biophysics, vol. 12.

**Protective Coatings on Metals.** Vol. 5. G. V. Samsonov, Ed. Translated from the Russian edition (Kiev, 1971) by Eric Renner. Consultants Bureau (Plenum), New York, 1973. xii, 276 pp., illus. Paper, \$35.

**Psychology.** A Life-Centered Approach. Frank J. Bruno. Hamilton (Wiley), Santa Barbara, Calif., 1974. xii, 496 pp., illus. Paper, \$9.95.

**The Structure of Scientific Theories.** Papers from a symposium, Urbana, Ill., Mar. 1969. Frederick Suppe, Ed. University of Illinois Press, Urbana, 1974. xiv, 682 pp., illus. \$22.50.

**Studies in Model Theory.** M. D. Morley, Ed. Mathematical Association of America, Washington, D.C., 1973. x, 198 pp., \$8; by subscription, \$4. Studies in Mathematics, vol. 8.

**The Technique and Practice of Intensive Psychotherapy.** Richard D. Chessick. Aronson, New York, 1974. xiv, 376 pp. \$12.50.

**Theory of Plasma Instabilities.** A. B. Mikhailovskii. Translated from the Russian edition (Moscow, 1971) by Julian B. Barbour. Consultants Bureau (Plenum), New York, 1974. Two vols., illus. Vol. 1, Instabilities of a Homogeneous Plasma. xviii, 290 pp. \$32.50. Vol. 2, Instabilities of an Inhomogeneous Plasma. xviii, 314 pp. \$32.50. Studies in Soviet Science.

**The Thyroid Axis, Drugs, and Behavior.** Arthur J. Prange, Jr., Ed. Raven, New York, 1974, viii, 206 pp., illus. \$15.95.

**Tissue Culture of the Nervous System.** Gordon Sato, Ed. Plenum, New York, 1973. xiv, 288 pp., illus. \$19.50. Current Topics in Neurobiology, vol. 1.

**The Titanic Effect.** Planning for the Unthinkable. Kenneth E. F. Watt. Dutton, New York, 1974. xvi, 268 pp. \$7.95.

**To The Good Long Life.** What We Know About Growing Old. Morton Puner. Universe Books, New York, 1974. 320 pp. \$7.95.

**Vibrational Spectra of Polyatomic Molecules.** L. M. Sverdlov, M. A. Kovner, and E. P. Krainov. Translated from the Russian edition (Moscow, 1970) by IPST Staff. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. xiv, 644 pp., illus. \$38.

2 AUGUST 1974

# Personnel Placement

## POSITIONS WANTED

**Aquatic Biologist.** M.S., seeks position with environmental consulting firm, industry, or state or federal agencies. Experience with macrobenthos, stream surveys, and chemical water analysis. Available August 1974. Write: 611 Washington Street, Blacksburg, Va. 24060. X

**Biochemistry/Genetics.** Ph.D. Publications; experience in protein synthesis, cell culture, protein purification/characterization; seeks research, teaching/research position. Box 360, SCIENCE. 8/9

**Biological Oceanographer.** Ph.D. 1974. Marine zooplankton ecology. Publications and past grant awards. Desires research position. Available 1 October. Box 361, SCIENCE. 8/9

**Biologist.** Ph.D. (genetics, 1965), postdoctoral, broad training, outstanding teacher, 15 years of professional experience. Special interest innovative undergraduate programs. Seeks academic position. 2266 Lake Circle, Jackson, Mississippi 39211. X

**Cellular Immunologist** (Ph.D. 1972), M.S. (biochemistry), B.S. (chemistry, biology), diploma—tissue culture. Experience—2 years of postdoctoral research in rheumatology (RA and JRA), working on soluble immune complexes, publications in preparation. Seeking a challenging position in industrial, clinical, academic or administrative setting. Available January 1975. Box 362, SCIENCE. X

**Mathematician** wants water resources research and/or teaching position. All but Ph.D.; 11 years of applied mathematics/statistics: power flow, streamflow synthesis/temperature, siting and cooling pond analyses; 9 years of teaching. Publications. Box 363, SCIENCE. X

**Medical Genetics and Biology.** M.S., human, animal genetic and biochemical research experience. Seeks health research position. Box 364, SCIENCE. X

**Organic Chemist—Pharmacologist.** Ph.D., publications, teaching experience. Current research: structure-activity relationships. Seeks position in teaching/research. Prefers northeastern United States. Box 365, SCIENCE. X

**Pharmacologist.** Ph.D. Three years of professional school teaching; interested in research position. Experience—GI, autonomic, and cardiovascular research in dogs. Box 366, SCIENCE. X

**Ph.D. Husband-Wife Team.** Marine biology, environmental physiology, plankton, ecology, teachers, researchers, shipboard experience, publications, environmental consulting, presently marine biology lecturers in Kenya. Dr. Kenneth Turgeon, 14 Quanaoag Road, East Freetown, Mass. 02717. Telephone: (617) 763-5575. X

**Physicist.** Ph.D. (1971). Seventeen years of experience in research in private industry. One year of university teaching (1973-74). Experience in nuclear radiation, plasma physics, EM propagation, ionospheric studies, and oceanography. Desires position in research and/or teaching in industry or university. Box 367, SCIENCE. X

**Physiologist.** Ph.D. Trained in clinical respiratory mechanics seeks position in hospital or industry. Box 368, SCIENCE. X

**Theoretical Biophysicist.** Ph.D. Postdoctoral experience. Publications. Conformational analysis of enzymes, nucleic acids, and proteins. Presently working on the molecular design of enzyme active sites. Availability is flexible. Box 369, SCIENCE. X

**Virology—Molecular Biology.** Ph.D. 1967 with teaching, grant-supported research and project manager experience. Seeking a challenging position involving any combination of teaching, research or administration. Box 357, SCIENCE. X

## POSITIONS OPEN

### ASSISTANT DIRECTOR

The Carnegie-Mellon Institute of Research (CMIR) (formerly Mellon Institute) is looking to expand its interests in contract research into economics, planning, evaluation, and management studies by appointing an Assistant Director who will be charged with developing the program. Candidates with applicable experience should submit résumés, in confidence, to the Director, CMIR, 4400 Fifth Avenue, Pittsburgh, Pa. 15213. Salary negotiable. An equal opportunity employer.

## POSITIONS OPEN

**ACADEMIC POSITION**, state salaried for M.D., Ph.D., or equivalent. Teaching and research in health care services, medical care organization, evaluation of health care programs for targeted populations (MCH, aging, poor, and so forth), or for system-wide program effectiveness. Available now. Salary and rank negotiable. Send résumé and salary requirements to **Dr. Edward A. Lichter, Health Care Services, School of Public Health, University of Illinois, P.O. Box 6998, Chicago, Illinois 60680. Phone: 312-996-7630. The University of Illinois is an Affirmative Action—Equal Opportunity Employer and encourages applications from members of minority groups and women.**

### ANIMAL PATHOLOGIST

D.V.M./Ph.D. to join rapidly growing pharmacology and toxicology group. Requires strong background and interest in animal histopathology. Will participate in ongoing and new long-term programs in the safety evaluation of antimalarial, anticancer agents, and environmental chemicals. Applications with curriculum vitae and names of three references, should be sent to:

**Martin N. Schuler**  
Midwest Research Institute  
425 Volker Boulevard  
Kansas City, Missouri 64110

An Equal Opportunity Employer M/F

### ASSISTANT PROFESSOR OF ENTOMOLOGY

Assistant Professor with postdoctoral experience in insect physiology, effective 1 April 1975. Undergraduate and graduate teaching, development and direction of a research program in insect physiology and application of some aspects of this field to agricultural or forest entomology. Maximum starting salary \$14,043. Send curriculum vitae and names of three referees by 31 October 1974 to: **Dr. George E. Ball, Chairman, Department of Entomology, 260 Agriculture Building, University of Alberta, Edmonton, Alberta T6G 2E3, Canada.**

### ASSISTANT PROFESSOR

Temporary position beginning September 1974 to teach courses in general biochemistry. Appointment will be made at the level of Assistant Professor. Curriculum vitae and names of three references may be sent to **Dr. Leonard Malkin, Department of Biochemistry, Wayne State University School of Medicine, Detroit, Michigan 48201. Wayne State University is an Affirmative Action Employer.**

**BIOCHEMISTRY DEPARTMENT** of Wayne State University School of Medicine invites applications for faculty positions from individuals who have done independent research. Rank and salary are open. Candidates with experience in the fields of metabolic regulation, molecular biology, neurobiochemistry, or protein chemistry will be given special consideration. Curriculum vitae and names of three references may be sent to **Dr. Ray K. Brown, Chairman, Department of Biochemistry, Wayne State University School of Medicine, Detroit, Michigan 48201. Wayne State University is an Affirmative Action Employer.**

The Department of Biological Sciences, San Jose State University, San Jose, Calif. 95192, an Equal Opportunity Employer, announces an opening for assistant professor of human anatomy, 30 August 1974. Teaching and research in this and allied fields. Graduate student advising and teaching. Send curriculum vitae to **Joseph H. Young, Chairman.**

The department also announces temporary positions for one and two semesters, 1974-75 academic year, part- and full-time, in entomology, cell biology, electron microscopy, human anatomy and physiology, zoology, microbiology, ecology, and general biology.

The Biology Department of the University of Missouri-Kansas City announces the opening of two positions to be filled from the following three areas

### Comparative Physiologist Molecular Geneticist Systems Ecologist

at the Assistant Professor rank. Duties will be undergraduate and graduate teaching with research productivity expected. Salary \$12,500 for 9 months. Send complete curriculum vitae, list of publications, and names of three professional references. Contact **Chairman, Department of Biology, 5100 Rockhill Road, University of Missouri-Kansas City, Kansas City, Mo. 64110.**

## POSITIONS OPEN

### ASSISTANT PROFESSOR IN ENVIRONMENTAL SCIENCE

**Duties:** Research and teaching in pollution ecology. Develop research projects and graduate courses involving the ecology of eucaryotic organisms in waste treatment systems and polluted aquatic environments. Advise M.S. and Ph.D. students.

**Training:** Undergraduate and Ph.D. degrees in programs that emphasize biology (macro- and microorganisms) and aquatic biology. Strength in chemistry, physics, mathematics, statistics, stream pollution, and waste water studies is desirable.

**Application:** Candidates should send curriculum vitae, copies of transcripts, and three letters of reference at the earliest opportunity to: **Dr. A. J. Kaplovsky, Chairman, Department of Environmental Science, Cook College, P.O. Box 231, Rutgers, The State University, New Brunswick, New Jersey 08903; 201-932-9185.**

*Rutgers is an equal opportunity employer.*

### ASSISTANT PROFESSOR OF VIROLOGY

**Duties:** Undergraduate and graduate virology teaching with research productivity expected. Salary \$12,500 for 9 months. Send curriculum vitae and names of three references to **Chairman, Search Committee, Department of Biology, University of Missouri-Kansas City, Kansas City, Missouri 64110.**

*The University of Missouri is an equal employment and educational opportunity institution.*

### BIOLOGY CHAIRPERSON

Fall 1975. Preference will be given to a vertebrate physiologist. Qualifications: Doctorate plus at least 5 years of teaching and research experience. Submit résumé prior to October 1974 to

**Search Committee  
Biology Department  
State University of New York  
Potsdam, New York 13676**

*An Equal Employment Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

### STATISTICS DEPARTMENT CHAIRPERSON

Ph.D. and national/international recognition in statistics or a closely related field; demonstrated ability and interest in both applied and theoretical statistics, plus administrative experience. Will be in charge of faculty of 12, extensive interdisciplinary contract activities, and a statistical laboratory.

Application deadline: 15 October 1974.

Contact **Dr. Richard Shiklar, Search Committee, C-7 Social Science Building, Colorado State University, Fort Collins, Colorado 80521.**

*Colorado State University is an equal opportunity employer. Ethnic minorities and women are encouraged to apply.*

### CHEMISTRY

The UNIVERSITY OF TEXAS AT SAN ANTONIO seeks applicants in all areas of chemistry including geochemistry, georganic, bioorganic, biophysical, and geophysical chemistry. Demonstrated interest and expertise in both teaching and research are required. Rank and salary dependent upon qualifications. Positions are available 1 September 1975. *Equal opportunity/affirmative action.* Reply to: **Director, Division of Earth and Physical Sciences, University of Texas at San Antonio, San Antonio, Texas 78285.**

### FACULTY POSITION IN PHARMACOLOGY

Research and Teaching. Either M.D. or Ph.D. Rank and salary commensurate with experience and ability. The person must have some experience or great interest in computer-aided and managed instruction. Teaching duties include development of educational methods for postgraduate physicians. Research specialization can be in any area of pharmacology.

Send résumé or call for further information.  
**Dr. Edward J. Walaszek, Professor and Chairman  
Department of Pharmacology  
Kansas University Medical Center  
Kansas City, Kansas 66103  
913 831-7141**

*Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

### M.D. DIRECTOR—GERIATRIC CENTER

Must qualify for senior academic appointment in the affiliated medical school. Send curriculum vitae and bibliography. Stanford is an equal opportunity affirmative action employer and specifically seeks applications from women and members of minority groups. Reply: **Chief of Staff, Dr. Franklin G. Ebaugh, Jr., 11B, Stanford University, 3801 Miranda Ave., Palo Alto, Calif. 94304.**

### DIRECTOR

The Jackson Laboratory invites applications for the position of Director of the Laboratory, which will become open on 1 October 1975. Qualified applicants are invited to submit a curriculum vitae and summary of experience to one of the following:

**Dr. James D. Ebert, Chairman, Search Committee, Marine Biological Laboratory, Woods Hole, Massachusetts 02543**  
**Dr. James F. Crow, Member, Search Committee, Department of Medical Genetics, University of Wisconsin, Madison, Wisconsin 53706**  
**Dr. Douglas L. Coleman, Secretary, Search Committee, The Jackson Laboratory, Bar Harbor, Maine 04609**

*An equal opportunity employer*

### EXECUTIVE EDITOR PSYCHOLOGICAL ABSTRACTS INFORMATION SERVICE

The American Psychological Association, publisher of *Psychological Abstracts* and related computer services, is seeking an Executive Editor to manage the *Psychological Abstracts Information Service*. The Executive Editor reports directly to the Director of the Office of Communication and is responsible for document selection, abstracting and indexing, and the planning, development, and operation of products and computer services derived from the *Psychological Abstracts* data base.

Qualifications consist of 5 to 10 years of demonstrated experience in the management of an abstracting and indexing service; a minimum of an M.A. in psychology or a related behavioral science; and training or experience in one or more of the following areas: serials indexing, abstracting, classification; text processing; publications production; scientific information transfer. Compensation and benefits for this position are competitive.

Interested applicants are invited to submit a résumé, supporting material, and reference names for consideration by: **Personnel Manager, American Psychological Association, 1200 Seventeenth Street, NW, Washington, D.C. 20036. The APA is an Equal Opportunity Employer.**

### CSIRO DIVISION OF ANIMAL HEALTH MELBOURNE, VICTORIA RESEARCH SCIENTIST

CSIRO has a broad charter for research into primary and secondary industry areas. The Organization has approximately 6500 employees, 2100 of whom are research and professional scientists, located in Divisions and Sections throughout Australia.

**Field: Microbiological Security.**

**Location:** The position is initially located at the CSIRO, East Melbourne, but some time will be spent at other locations in Melbourne. After a period of 5 to 6 years the position will be transferred to the Animal Health Laboratory at Geelong, Victoria.

**General:** A major biological laboratory for the diagnosis of and research on exotic and indigenous diseases of livestock will be built in Geelong. The microbiological performance of the facility is of great importance and will be the responsibility of the Officer-in-Charge of the Laboratory. The successful applicant will be working closely with and be responsible to the Officer-in-Charge.

**Duties:** Research into the behaviour of microorganisms in nonbiological environments and specifically into engineering, mechanical, hydraulic, and chemical systems for handling these agents.

**Qualifications:** A Ph.D. degree in microbiology or equivalent qualifications; extensive experience in the achievement, maintenance, and control of microbiological security, with demonstrable research ability.

**Salary:** Appointment will be made within the salary ranges of Senior Research Scientist or Principal Research Scientist: \$12,674 to \$17,549 per annum.

**Tenure:** The position is available for an indefinite period and Australian government superannuation benefits are available.

Applications stating full personal and professional particulars, the names of at least two referees and quoting reference number 201/455, should reach: **The Chief, Division of Animal Health, CSIRO, Private Bag No. 1, Parkville, Victoria, 3052, by 23 August 1974.**

## RESEARCH SCIENTIST/ IMMUNOCHEMIST

The Ames Company Division of Miles Laboratories, Inc., a leading manufacturer of clinical laboratory reagents, offers an excellent opportunity for an Immunochemist in its Research Laboratory.

The candidate must have a Ph.D. in Immunology or Immunochemistry. Post doctorate or clinical laboratory experience is highly desirable. This person will be responsible for initiating and conducting independent research in the development of immunodiagnostic test systems and methods.

Located in Elkhart, Indiana, a community of 50,000 population, we offer excellent recreational and educational opportunities as well as convenient accessibility to the Chicago area. Excellent starting salary commensurate with experience, plus a superior benefits program. Relocation expenses paid by the Company. Please send complete résumé, including expected salary, in confidence to:

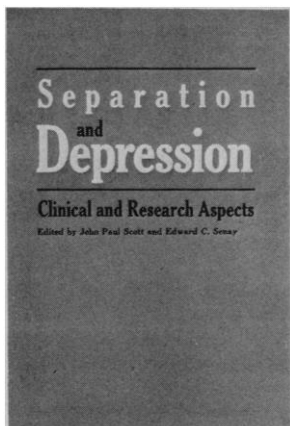
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A A A S

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## ASSOCIATE DIRECTOR FOR EPIDEMIOLOGY AND BIOMETRY

Assume responsibility and direction of an ongoing program of epidemiologic and statistical research and consultation at the National Institute of Child Health and Human Development. The Associate Director is directly responsible to the Director whom he advises on epidemiologic and statistical issues relating to the entire research program of the Institute, including the extramural area.

The NICHD is one of the National Institutes of Health and supports and conducts a broad range of research programs in child health and development including perinatal and reproductive biology, infant diseases and mortality, growth and development, mental retardation, and population research. The Associate Director supervises two Branches—an Epidemiology Branch and a Biometry Branch—which offer consultation and conduct research on epidemiologic and statistician problems within the program areas of the Institute.

Applicant should be a trained epidemiologist, with an M.D. preferred, or a statistician with extensive experience in biomedical research. Competency in study design, data collection and analysis are important but in addition applicant should have experience in any of several fields, including epidemiologic studies, clinical research and medical statistics. Salary is dependent on the qualifications of applicant.

Interested candidates should submit applications in the form of a letter to the Personnel Officer, with curriculum vitae attached, by 15 October.

**Mrs. Helen Stafford**  
**Personnel Officer**  
**NICHD**

**National Institutes of Health**  
**9000 Rockville Pike, Bethesda, Maryland 20014**

## THE UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH IS SEEKING A SPECIAL ASSISTANT FOR UNIVERSITY RELATIONS

**Job responsibilities include:** Assist and advise the UCAR President in University-NCAR relations, stimulate and facilitate joint University-NCAR research projects, insure effective communication with administration and faculty of Member Universities, serve as ombudsman in problems which may arise between Member Universities and NCAR, and provide liaison for the President with advisory committees and in assessing need for facilities.

**Essential Qualifications:** Recognized research achievement in the atmospheric sciences and broad scientific interests, and full-time university faculty experience.

**Desired Qualifications:** Successful achievements in cooperative research projects, administrative or management experience, and familiarity with government agency procedures.

**Term of appointment and salary:** The appointment will normally be made for a period of 3 years. Applicants for a shorter period will be considered. Salary will be negotiated on the basis of prior experience and qualifications.

Those interested in applying should send a résumé of experience, list of publications, and names of three references to:

Office of the President  
**University Corporation for Atmospheric Research**  
P. O. Box 3000  
Boulder, Colorado 80303

Closing date for receipt of applications is 30 September 1974

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## POSITIONS OPEN

### CSIRO ANIMAL HEALTH LABORATORY, GEELONG OFFICER-IN-CHARGE

CSIRO has a broad charter for research into primary and secondary industry areas. The Organization has approximately 6500 employees—2100 of whom are research and professional scientists—located in Divisions and Sections throughout Australia.

**Location:** The appointee will be located initially at Melbourne and subsequently at Geelong, Victoria.

**General:** Applications are invited from scientists who have an established record of personal research achievement and leadership, interested in the position of Officer-in-Charge, Animal Health Laboratory, Geelong. Experience in the specific field of veterinary virology is essential. Some knowledge of the major diseases exotic to Australian livestock and the management and direction of studies on these diseases, under conditions of maximum microbiological security, would be highly desirable.

The decision to establish the laboratory complex which will constitute the Animal Health Laboratory at Geelong was announced recently. The current estimated capital cost of the complex is expected to be \$56 million and spending, to begin in 1976-77, will be spread over 5 years. At full operation the Animal Health Laboratory, Geelong, will employ a staff of 170 including 25 scientists. Its initial annual operating costs would be approximately \$3 million.

The Laboratory will have a vital role in minimizing the impact on the Australian livestock industry of an outbreak of an exotic disease, such as foot and mouth disease, and will provide a facility for the diagnosis of exotic animal diseases. It will carry out special tests on biological material from livestock held in quarantine before entry into Australia. It will also carry out research on those virus diseases endemic in Australian livestock. The Laboratory will provide facilities for testing the safety and potency of vaccines that may be required for the control of exotic diseases and, should the necessity ever arise, for the production of foot and mouth vaccine.

The Animal Health Laboratory, Geelong, will be administered and operated by CSIRO on behalf of the Australian government. Following the establishment of the laboratory, a consultative committee will assist in the determination of priorities and will ensure effective liaison on policy matters. This committee will provide an essential link with the Animal Quarantine Branch of the Department of Health for the testing of livestock in the proposed offshore High Security Animal Quarantine Station. The committee will also provide a liaison channel with the State Departments of Agriculture and for special research, training, diagnosis, and epidemiology with the proposed Bureau of Animal Health in the Department of Primary Industry.

**Duties:** The Officer-in-Charge will be responsible to the Chief, CSIRO Division of Animal Health, for the direction of the Animal Health Laboratory, Geelong. Initially, he will play a major role in the planning and construction of the complex and will make recommendations through the Chief of the Division, to the CSIRO Executive concerning its future operation. Subsequently, he will be responsible for the conduct and direction of the work of the Laboratory. He will also be required to play a major role in developing close relationships with Commonwealth and State groups possessing common interests.

**Salary:** Appointment will be made within the salary ranges of Senior Principal Research Scientist or Chief Research Scientist, Grade 1: \$18,077 to \$20,750 per annum.

**Tenure:** It is envisaged that an appointment would be made for an indefinite period with Australian government superannuation benefits available, but consideration could be given to a fixed-term appointment.

**Further Information:** Dr. A. E. Pierce, a member of the CSIRO Executive, will be visiting Washington, D.C., from 5 to 9 August 1974, and London, England, from 12 to 16 August 1974, and will be available for discussions concerning the appointment with applicants and those interested in hearing more about the position. Those wishing to discuss the appointment should contact either the **Counsellor (Scientific), Embassy of Australia, 1601 Massachusetts Avenue, NW, Washington, D.C. 20036**, or the **Chief Scientific**

**Liaison Officer, Australian Scientific Liaison Office, 64 Kingsway, London, W.C.2B 6BD, England.** Scientists interested in discussing the appointment should ensure that the appropriate overseas office is contacted in ample time to enable suitable arrangements to be made.

Further information on the Division's activities can be obtained by writing to the **Secretary (Administration), CSIRO, P.O. Box 225, Dickson, A.C.T. 2602, Australia.**

**Applications:** Applications, stating full personal and professional details, the names of at least two referees, and quoting reference number 201/449, should reach: **The Secretary (Administration), CSIRO, P.O. Box 225, Dickson, A.C.T. 2602, Australia**, by 6 September 1974.

## DIRECTOR, ANALYTICAL BIOCHEMISTRY

To work in already established biochemistry lab in a fast-growing contract research group. Ph.D. preferred with 5+ years of experience in contract research. Must be able to write and sell proposals. Prior program experience with pesticides, pharmaceutical, and carcinogens mandatory. Able to assume management role for existing department of Analytical Biochemistry of 16 people now involved in Water and Sediment Chemistry, Pesticide, and Carcinogenesis studies. Excellent fringe benefits. Send résumé to **Personnel Manager, Gulf South Research Institute, 8000 GSRI Avenue, Baton Rouge, Louisiana 70808**. An Equal Opportunity Employer.

## DIRECTOR, TOXICOLOGY

D.V.M. preferred; will consider Ph.D., with 3 to 5 years of experience in contract research. Proposal writing and selling mandatory. Must have research experience in pesticides, commercial toxicology, animals, and organics. Capable of taking over, building, and managing a Toxicology Department in a fast-growing contract research group. Excellent fringe benefits. Send résumé to **Personnel Manager, Gulf South Research Institute, 8000 GSRI Avenue, Baton Rouge, Louisiana 70808**. An Equal Opportunity Employer.

## CSIRO DIVISION OF ANIMAL PHYSIOLOGY PROSPECT, N.S.W. CHIEF OF DIVISION

CSIRO has a broad charter for research into primary and secondary industry areas. The Organization has approximately 6500 employees—2100 of whom are research and professional scientists—located in Divisions and Sections throughout Australia.

**General:** Applications are invited from scientists who have an established record of personal research achievement and leadership for the position of Chief, Division of Animal Physiology. The vacancy will arise following the retirement of Dr. I. W. McDonald later this year. The Division has its headquarters at Prospect, approximately 20 miles from the city of Sydney. The Pastoral Research Laboratory at Armidale, N.S.W., the Beef Cattle Research Unit, at Townsville, Qld., and the Bloat Research Unit at Melbourne are regional units of the Division. The total divisional staff is approximately 150, including 55 professional staff.

The work of the Division currently includes research on ruminant nutrition, endocrinology, wool growth, climate physiology, energy metabolism, reproduction, and the pasture ecosystem. The primary objective of the Division is to provide knowledge that will improve productivity and efficiency of Australia's animal industries.

**Duties:** The Chief is responsible to the Executive for the conduct and direction of the research activities of the Division, for its general administration and for the control of funds available to it. The Chief is expected to formulate proposals for new research programmes in association with other scientists in Universities and State Departments and rural industry leaders.

The Chief of the Division of Animal Physiology is also a member of the Animal Research Laboratories Committee, of which Dr. K. A. Ferguson is chairman. The Committee has overall responsibility for the coordination of the research effort of the CSIRO Animal Research Laboratories, comprising the divisions of Animal Health, Animal Physiology, Animal Genetics, and Nutritional Biochemistry.

**Salary:** Salary for the appointment will be the subject of negotiation but will be not less than \$A22,875 per annum.

**Tenure:** Appointment to the Organization will be for an indefinite period and Australian government superannuation benefits are available. The tenure of appointment as Chief could be subject to negotiations, but a fixed-term (of the order of 7 years) would be envisaged initially. Such an agreement could be renegotiated for a further period, or arrangements made for a transfer to a senior research position in the Organization.

**Further Information:** Dr. A. E. Pierce, a member of the CSIRO Executive, will be visiting Washington, D.C., from 5 to 9 August 1974, and London, England, from 12 to 16 August 1974, and will be available for discussions concerning the appointment with applicants and those interested in hearing more about the position. Those wishing to discuss the appointment should contact either the **Counsellor (Scientific), Embassy of Australia, 1601 Massachusetts Avenue, NW, Washington, D.C. 20036**, or the **Chief Scientific Liaison Officer, Australian Scientific Liaison Office, 64 Kingsway, London, W.C.2B 6BD, England.** Scientists interested in discussing the appointment should ensure that the appropriate overseas office is contacted in ample time to enable suitable arrangements to be made.

Further information on the Division's activities can be obtained by writing to the **Secretary (Administration), CSIRO, P.O. Box 225, Dickson, A.C.T. 2602, Australia.**

**Applications:** Applications, stating full personal and professional details, the names of at least two referees, and quoting reference number 245/599, should reach: **The Secretary (Administration), Head Office, CSIRO, P.O. Box 225, Dickson, A.C.T. 2602, Australia**, by 6 September 1974.

## POSITIONS OPEN

### FACULTY POSITIONS IN MICROBIOLOGY (TWO)

Applications are invited for an Immunologist and a Microbiologist interested in disease processes. Minimum qualifications are a scholarly record in teaching and research in subject discipline. Salary and rank dependent upon qualifications and experience. Send curriculum vitae to **Dr. David Senitzer, Department of Microbiology, Medical College of Ohio at Toledo, 945 South Detroit Avenue, Toledo, Ohio 43614**. An Equal Opportunity Employer.

Faculty position for fully trained **GENERAL SURGEON** with a degree in immunology as well. However, Ph.D. and M.D. candidates with suitable training in immunology will be considered. Position entails setting up and running a clinical tumor immunology laboratory and correlating data with cancer patient responses in patients undergoing therapy. Send curriculum vitae, bibliography, and synopsis of current and future goals to **William S. Fletcher, M.D., Professor of Surgery, Head, Division of Oncology, Department of Surgery, University of Oregon Medical School, Portland, Oregon 97201**. An Affirmative Action/Equal Opportunity Employer.

### DEPARTMENT OF GEOLOGY FLORIDA STATE UNIVERSITY

Applications are invited for two positions, one in paleontology, one in petrology beginning in the fall term of 1975. One position is to be filled at the professor level, one at the assistant professor level. Senior faculty are expected to participate in the rotating chairmanship. Applications are also invited for a position as laboratory technician, beginning September 1974, with archival duties and general assistance to the curator in the marine core facility. *The University is an Equal Opportunity/Affirmative Action Employer.* For all positions, please send curriculum vitae, and three letters of reference to **Dr. W. F. Tanner, Chairman, Search Committee, Department of Geology, Florida State University, Tallahassee, Florida 32306**.

### UNIVERSITY OF SOUTHERN CALIFORNIA

The Department of Geological Sciences will have two positions open for junior faculty. Areas of interest are:

- 1) Low-Temperature Geochemistry. Environmental interests welcome. Position available as early as September 1974.
- 2) Mineralogy-Petrology. Position available for September 1975.

Please send résumés and the names of three references to: **Dr. Richard O. Stone, Chairman, Department of Geological Sciences, University of Southern California, Los Angeles, California 90007**. *Southern California is an Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITION—IMMUNOLOGY

Department of Pathology seeks candidates for assistant professor to participate in Oncology Research Program involving oncofetal antigens and related aspects of tumor immunology. Ph.D., or M.D. with experience in immunological techniques and background in immunochemistry desired. Send curriculum vitae and three letters of recommendations to **Dr. D. M. Goldenberg, Department of Pathology, University of Kentucky Medical Center, Lexington, Kentucky 40506**. An Equal Opportunity Employer.

### DALHOUSIE UNIVERSITY DEPARTMENT OF MICROBIOLOGY

Applications are invited for a Faculty position at the level of *Lecturer/Assistant Professor*. Applicants should have an M.D. or Ph.D. with research experience and a major interest in medical microbiology. Salary according to qualifications and experience. Applications including curriculum vitae and the names of three referees to:

**Dr. K. R. Rozee  
Department of Microbiology  
Dalhousie University  
Halifax, Nova Scotia, Canada**

**Simon Fraser University  
British Columbia, Canada**

### DEPARTMENT OF BIOLOGICAL SCIENCES MARINE BIOLOGIST

Applications are invited for the position of Assistant Professor. Qualifications: Ph.D. with postdoctoral experience; a strong mathematical background and research interests in benthic marine communities. Nature of duties: teaching undergraduate courses in invertebrate biology and marine ecology; the development of an active research programme. The salary is negotiable. Letters of application, including curriculum vitae and the names and addresses of three referees should be sent to **Dr. J. M. Webster, Chairman, Department of Biological Sciences, Simon Fraser University, Burnaby, B.C. V5A 1S6, Canada**, before 1 October 1974.

## POSITIONS OPEN

### IMMUNOBIOLOGIST

For a 1-year contract. Salary, new lab and grant available for an experienced researcher to join a multidisciplinary group. Curriculum vitae and publications to:

**Dr. Gilberto O. Castro**  
Instituto de Biofísica da Universidade  
Federal do Rio de Janeiro  
Ilha do Fundao  
Rio de Janeiro-GB, ZC-32, Brasil

### PART-TIME LECTURERS IN BIOLOGY

We are seeking several individuals to teach environmental biology, human biology, comparative anatomy, animal physiology, and immunology during the 1974-75 academic year. Flexible schedule. Salary range \$2000 to \$3000 per quarter course. Previous college-level teaching experience required. Send résumé to **Chairman, Department of Biological Sciences, Northwestern University, Evanston, Illinois 60201. Northwestern University is an Equal Opportunity Employer.**

### MOLECULAR BIOLOGIST

Faculty position for Ph.D. molecular biologist. Two or more years' experience desirable. Position involves collaborative research on herpesviruses and oncornaviruses with light teaching responsibility to medical and graduate students. Send applications and curriculum vitae to **Dr. Meihan Nonoyama, Department of Microbiology, Rush Medical College, 1753 West Congress Parkway, Chicago, Illinois 60612. An equal opportunity employer.**

### PATHOLOGY FACULTY WANTED

For School of Medicine in development. Inquiries to: **Sylvanus W. Nye, M.D., Chairman, Department of Pathology, School of Medicine, East Carolina University, Greenville, North Carolina 27834. An equal opportunity/affirmative action employer.**

### PHARMACOLOGIST

A position is available for a pharmacologist. The successful candidate will teach medical students as a member of a multidiscipline basic science group. Teaching duties will involve being a part of a coordinated clinical instructional program in a 3-year innovative medical curriculum. Applicant should have a Ph.D. or M.D. degree, teaching experience, and a record of interest in research. Rank and salary are negotiable and commensurate with experience.

Send curriculum vitae to **Coordinator, Educational Programs in Basic Science, Peoria School of Medicine, 1400 West Main Street, Peoria, Ill. 61606. This school is a division of the University of Illinois is an Affirmative Action-Equal Opportunity Employer, and encourages applications from members of minority groups and women.**

### PHARMACOLOGIST

Opening for teaching pharmacology to second-year medical students. Emphasis on teaching excellence. Research encouraged but not required. Prefer nonneuropharmacologist but any may apply. Salary and rank commensurate with qualifications. Modern 426-bed hospital. Send curriculum vitae to **Dr. W. W. Tuttle, Chairman, Department of Pharmacology, College of Osteopathic Medicine, 2105 Independence Blvd., Kansas City, Missouri 64124. Telephone (816) 283-2402.**

### FACULTY POSITION FOR POLYMER CHEMIST

The Polymer Research Institute and Department of Chemistry of the Polytechnic Institute of New York is inviting applications for a permanent faculty appointment at a level depending on the applicant's experience. *We are an equal opportunity employer.* Contact

**Prof. E. Banks**  
Polytechnic Institute of New York  
333 Jay Street  
Brooklyn, N.Y. 11201

### POSTDOCTORAL POSITION

For biochemical pharmacologist to work on grant-funded project on incorporation of nucleic acid analogs into polynucleotides and molecular consequences. Position available for 2 years. Send résumé to **Dr. H. George Mandel, Department of Pharmacology, The George Washington University Medical Center, 2300 Eye Street, NW, Washington, D.C. 20037.**

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately. \$10,000 per year. Study of in vitro acousto-chemical energy transduction mechanisms. Experience in enzymology required. Applicants with previous experience in biophysics or ultrasonic perturbation of macromolecules desired. Send résumé to:

**Dr. M. K. Weibel**  
Biochemistry Department  
School of Medicine  
University of Pennsylvania  
Philadelphia, Pa. 19174

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

**PHYSICAL OCEANOGRAPHY FACULTY.** Capable of developing seagoing research programs. Interested in phenomena or processes in the North Pacific. Familiar with modern techniques of direct-current measurements and STD/CTD hydrography. Salary and rank dependent on qualifications. Write to **Dean John V. Byrne, School of Oceanography, Oregon State University, Corvallis, Ore. 97331.**

*An Affirmative Action/Equal Opportunity Employer*

### RESEARCH ASSOCIATE

Investigations of the mechanism and regulation of membrane transport in normal and transformed cells in culture, biochemical mechanism of action of anticancer agents, and their mode of uptake. Available now for 3 years. \$10,000 to \$12,000. Send curriculum vitae and two letters of reference to **Dr. Peter G. W. Plagemann, Department of Microbiology, University of Minnesota, Minneapolis, Minn. 55455.**

# CORNING

### RESEARCH CLINICAL MICROBIOLOGIST

Corning Glass Works is looking for Ph.D. with at least 3 years of clinical microbiology experience as well as research experience and publications. Duties will include—

- 1) Correlation of developmental efforts and clinical laboratory requirements.
- 2) Pursuance of a fundamental research program.

Good communication abilities essential. Position initially is at Corning, New York; substantial traveling anticipated.

Reply to

**Gordon R. McPherson, Personnel Manager**  
Technical Staffs Division  
Corning Glass Works  
Corning, New York 14830

*An equal opportunity employer*

Senior position in one of the following areas: endocrinology, immunobiology or membrane biology. Minimum of 7 years of experience beyond the doctorate. Responsibilities include teaching undergraduate as well as graduate students and directing an active research program in one of the above areas. A person with an outstanding record of accomplishment in both research and teaching will be given preference. Send curriculum vitae, including brief summary of research program and objectives, and three letters of sponsorship to: **Chairman, Department of Biology, William Marsh Rice University, P.O. Box 1892, Houston, Texas 77001. Rice University is an equal opportunity employer with an affirmative action program. Applications from women and members of minority groups are encouraged.**

### THE UNIVERSITY OF SYDNEY (AUSTRALIA) SENIOR RESEARCH OFFICER—CHILD HEALTH

Research position in field of mammalian enzymology (with emphasis on folic acid metabolism, membrane biochemistry, and multienzyme complexes) suitable for scientist with Ph.D. qualification.

Salary within range of \$8698 to \$9637 (Australian) per annum.

Applications and inquiries to: **The Director, Institute of Child Health, Royal Alexandra Hospital for Children, Camperdown, N.S.W. 2050, Australia.**

## POSITIONS OPEN

### RESEARCH ASSOCIATE

Ph.D. in Biochemistry preferably with protein chemistry experience for research on the complement binding sites of immunoglobulins. Annual salary \$10,000. Send curriculum vitae to

**Dr. Brian Johnson**  
Department of Microbiology  
University of Alabama Medical School  
Birmingham, Alabama 35294

**TECHNICAL INFORMATION SERVICES. CIBA-GEIGY**, a world leader in crop protection chemicals, is seeking an **Information Specialist** for its expanding Agricultural Division located at the Greensboro, North Carolina, facility. This challenging, professional position requires a degree in agricultural or other natural sciences plus 1 to 3 years of training and/or experience in technical literature, information handling, and computer systems. Selected candidate will be responsible for a major information system such as microfilm storage, card system, or computerized research. Duties will involve analysis, selection, storage, retrieval, distribution, and updating of extensive data for the division. Salary will be based on qualifications and an extensive benefits package is offered. Please send current résumé with salary expectations in confidence, to: **C. F. LaBella, Site Personnel, CIBA-GEIGY Corporation, P.O. Box 11422, Greensboro, North Carolina 27409. We are an equal opportunity employer/male and female.**

## GRADUATE TEACHING

**GRADUATE TEACHING ASSISTANTSHIPS, University of Tennessee Center for the Health Sciences, Department of Physiology and Biophysics, Memphis, Tennessee 38163.** For graduate study leading to the Ph.D. in Physiology and Biophysics. Successful candidates, after training in fundamentals of physiology, can obtain specialized training for research in any of the following areas: neurophysiology, cardiovascular physiology, endocrinology, renal physiology, and thermoregulation. For details write: **Dr. C. M. Blatteis, Chairman, Graduate Training Committee. An affirmative action/equal opportunity employer.**

## FELLOWSHIPS

**POSTDOCTORAL FELLOWSHIP IN DEVELOPMENTAL NEUROBIOLOGY.** Applications are invited from persons with Ph.D. or M.D. degree for research training in methods dealing with the postnatal development of the nervous system and behavior in animals. Multidisciplinary research is concerned with normative studies of neurobiological development and the effects of various experimental and environmental treatments on the maturation of brain and behavior. Send résumé and references to **Dr. Joseph Altman, Laboratory of Developmental Neurobiology, Department of Biological Sciences, Purdue University, West Lafayette, Indiana 47907. An equal opportunity employer.**

### BACTERIAL RIBOSOMES

Applications are invited for a postdoctoral fellowship for work on the ribosome cycle or on antibiotic action on ribosomes. Applicant should be well trained in protein or nucleic acid biochemistry or in bacterial physiology. Send curriculum vitae, reprints, names for reference to: **Dr. Bernard D. Davis, Bacterial Physiology Unit, Harvard Medical School, Boston, Mass. 02115. Applications from candidates of either sex or any race are equally welcome.**

### FELLOWSHIP AVAILABLE NOW IN LIPOPROTEIN METABOLISM AND DISEASE

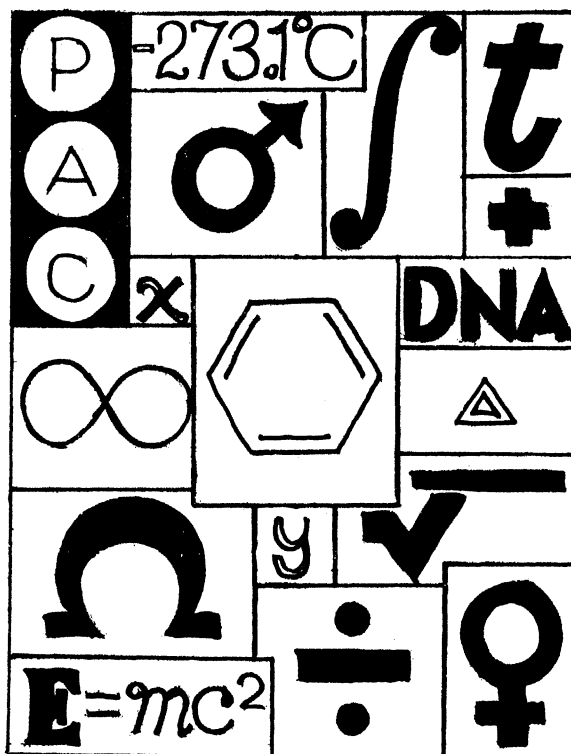
\$16,000 salary per year for a 2-year program. Postdoctoral training available in the clinical diagnosis and treatment of the dyslipoproteinemias and in coronary prevention programs. Research training on the synthesis, structure, and metabolism of plasma lipoproteins in man and in laboratory animals. The strengths of the laboratory are in the use of the radioimmunoassay and organ perfusion techniques. *Qualifications*—M.D. degree or equivalent and 2 years of post-M.D. clinical training. Laboratory research experience helpful. Send curriculum vitae to:

**Dr. Gustav Schonfeld, Director**  
Lipid Research Center  
Washington University School of Medicine  
Box 8046, 4566 Scott Avenue  
St. Louis, Missouri 63110



# 1974

## AAAS~WESTINGHOUSE SCIENCE WRITING AWARDS FOR NEWSPAPERS $\frac{1}{10}$ MAGAZINE SCIENCE WRITING



To encourage and recognize outstanding writing on sciences (except medical) and their engineering and technological applications (excluding medicine) in newspapers and general circulation magazines.

Three awards of \$1000 each for science writing in newspapers with daily circulation of more than 100,000, in newspapers with circulation of less than 100,000, and in general circulation magazines.

Each entrant in a newspaper award competition and each entrant in the magazine award may submit three entries.

An entry for a newspaper competition may be any of the following: a single story; a series of articles; or a group of three unrelated stories, articles, editorials, or columns published during the contest period. A magazine entry may be a single story or series published during the contest period.

Contest Year: 1 October 1973 through 30 October 1974. All entries must be postmarked on or before midnight, 15 November 1974.

For entry blanks and detailed rules, contact Grayce A. Finger, American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Room 306, Washington, D.C. 20005. Or call 202-467-4483.