

P. Mathieu. Translated from the French edition (Paris, 1966) by J. Warren Blaker. Pergamon, Elmsford, N.Y., 1973. x, 366 pp., illus. \$18. International Series of Monographs in Natural Philosophy, vol. 52.

Properties of Concrete. A. M. Neville. Halsted (Wiley), New York, ed. 2, 1973. xvi, 686 pp., illus. \$16.

Psychopathology. Learning Theory, Research, and Applications. Jack Sandler and Robert S. Davidson. Harper and Row, New York, 1973. xiv, 368 pp., illus. \$8.95.

Psychopharmacology and Aging. Proceedings of a symposium, Durham, N.C., May 1972. Carl Eisdorfer and William E. Fann, Eds. Plenum, New York, 1973. xx, 254 pp., illus. \$12.50. Advances in Behavioral Biology, Vol. 6.

The Quantum Theory of Light. Rodney Loudon. Clarendon (Oxford University Press), New York, 1973. xii, 338 pp., illus. \$24.

Recent Developments in Separation Science. Norman N. Li, Ed. CRC Press (Chemical Rubber Co.), Cleveland, 1972. 2 vols., illus. Vol. 1, x, 230 pp. Vol. 2, x, 292 pp. Each volume, \$35.

Recent Developments in Shock Tube Research. Proceedings of a symposium, Stanford, Calif., 1973. Daniel Bershader and Wayland Griffith, Eds. Stanford University Press, Stanford, Calif., 1973. xviii, 830 pp., illus. \$27.50.

Rodd's Chemistry of Carbon Compounds. Vol. 4, part A, Heterocyclic Compounds. S. Coffey, Ed. Elsevier, New York, ed. 2, 1973. xx, 650 pp., illus. \$69.50.

Science and Technology in India. A. Rahman, R. N. Bhargava, M. A. Qureshi, and Sudarshan Pruthi. Indian Council for Cultural Relations, New Delhi, 1973. viii, 236 pp., illus. + plates. Rs. 30.

The Scientific World of Copernicus. On the Occasion of the 500th Anniversary of his Birth 1473-1973. Barbara Bienkowska, Ed. Translated from the Polish by Christina Cenkalska. Reidel, Boston, 1973. xii, 144 pp., illus. + plates. \$19.50.

Separation and Depression. Clinical and Research Aspects. An AAAS symposium, Chicago, Dec. 1970. John Paul Scott and Edward C. Senay, Eds. American Association for the Advancement of Science, Washington, D.C., 1973. viii, 256 pp., illus. \$19.95; to members, \$16.95. AAAS Publication No. 94.

Sigmund Freud. Paul Roazen, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1973. vi, 196 pp. Cloth, \$6.95; paper, \$2.95. Makers of Modern Social Science.

Sinnesphysiologie programmiert. R. F. Schmidt, Ed. Springer-Verlag, New York, 1973. x, 254 pp. + appendix. Paper, \$12.60.

Sputum. Fundamentals and Clinical Pathology. Mauricio J. Dulfano, Ed. Thomas, Springfield, Ill., 1973. xvi, 632 pp., illus. + plates. \$27.75.

Stochastic Differential Systems 1. Filtering and Control. A Function Space Approach. A. V. Balakrishnan. Springer-Verlag, New York, 1973. vi, 252 pp. Paper, \$8.20. Lecture Notes in Economics and Mathematical Systems, vol. 84.

Studies on the Geology and Geologic Hazards of the Greater San Diego Area,

California. Arnold Ross and Robert J. Dowlen, Eds. San Diego Association of Geologists, San Diego, Calif., 1973. 152 pp., illus. Paper, \$6.

Systematics and Evolutionary Relationships of Spiny Pocket Mice, Genus Liomys. Hugh H. Genoways. Texas Tech Press, Lubbock, 1973. 368 pp., illus. Paper, \$7.

Systems Analysis in Public Policy. A Critique. Ida R. Hoos. University of California Press, Berkeley, 1973. viii, 260 pp. Paper, \$3.25. Reprint of the 1972 edition.

Television and Antisocial Behavior. Field Experiments. Stanley Milgram and R. Lance Shotland. Academic Press, New York, 1973. xii, 184 pp., illus. \$10.95.

Thermal Analysis. T. Daniels. Halsted (Wiley), New York, 1973. 272 pp., illus. \$17.50.

Thermophysical Properties Research Literature Retrieval Guide. Supplement 1, 1964-1970. Y. S. Touloukian, J. Koolhaas Gerritsen, and W. H. Shafer, Eds. Plenum, New York, 1973. 6 vols. Vol. 1, Elements and Inorganic Compounds. xii, 736 pp. \$90. Vol. 2, Organic Compounds and Polymeric Materials. xii, 264 pp. \$45. Vol. 3, Alloys, Intermetallic Compounds, and Cermets. xiv, 390 pp. \$50. Vol. 4, Oxide Mixtures and Minerals. x, 242 pp. \$45. Vol. 5, Mixtures and Solutions. xii, 298 pp. \$45. Vol. 6, Coatings, Systems, and Composites. xii, 270 pp. \$45. The set, \$275.

Topics in Analytic Number Theory. Hans Rademacher. Springer-Verlag, New York, 1973. x, 320 pp. \$32.60. Grundlehren der mathematischen Wissenschaften, Band 169.

Trees and Shrubs of Kentucky. Mary E. Wharton and Roger W. Barbour. University Press of Kentucky, Lexington, 1973. x, 582 pp., illus. \$12.95.

The Tropical Forest. Ants, Animals and Plants. Mary Batten. Illustrated by Betty Fraser. Crowell, New York, 1973. xii, 132 pp., illus. \$4.95.

The Two-Dimensional Ising Model. Barry M. McCoy and Tai Tsun Wu. Harvard University Press, Cambridge, Mass., 1973. xx, 418 pp., illus. \$25.

The Uncertain Alliance. The Catholic Church and Labor in Latin America. Alexis U. Floridi and Annette E. Stiefbold. Center for Advanced International Studies, University of Miami, Washington, D.C., 1973. viii, 108 pp. Cloth, \$7.95; paper, \$4.95. Monographs in International Affairs.

Value-Distribution Theory. (in two parts) Robert O. Kujala and Albert L. Vitter III, Eds. Part B, Deficit and Bezout Estimates. Wilhelm Stoll. Dekker, New York, 1973. xiv, 274 pp. \$15.50. Pure and Applied Mathematics, No. 25.

The Way to Go. The Coming Revival of U.S. Rail Passenger Service. Thomas C. Southerland, Jr., and William McCleery. Simon and Schuster, New York, 1973. 256 pp., illus. + plates. \$8.95.

Where Are We and Where Do We Go? Gerrit Toennies. Dorrance, Philadelphia, 1973. vi, 52 pp. Paper, \$1.95.

Youth and Culture. A Human-Development Approach. Hazel V. Kraemer, Ed. Brooks/Cole, Monterey, Calif., 1974. x, 678 pp. Paper, \$6.95.

OXFORD

The Origin of Landscapes

A Synthesis of Geomorphology

H. F. GARNER, Rutgers University.

In this thorough reassessment of geomorphological theory, Professor Garner identifies the environments in which landforms develop and the processes characteristic of these environments as they evolve in time and space. He emphasizes the associations of processes in their natural environments and has also included unique chapters on tectonics, alternating arid-humid geomorphic systems, and coasts. Numerous illustrations and an extensive glossary complement and reinforce the text.

Spring 1974 656 pp. 603 illus. \$18.50

Circle No. 483 on Readers' Service Card

Pedology, Weathering, and Geomorphological Research

PETER BIRKELAND, University of Colorado.

This book brings together material on mineral and rock weathering, soil morphology and genesis, soil classification, soil-forming factors, and the use of soils in Quaternary stratigraphy. The author incorporates material from pedology, geology, chemistry, and biology necessary for an understanding of the genesis of soils. He focuses on the study of soils as seen in the field and the interpretations regarding their formation under present and past environments.

Spring 1974 304 pp. 190 maps; halftones; line drawings \$11.00

Circle No. 452 on Readers' Service Card

Molecular Reaction Dynamics

R. D. LEVINE, Hebrew University and Ohio State University, and R. B. BERNSTEIN, University of Texas.

This study of the molecular-level mechanisms of elementary chemical reactions emphasizes the important role of binary collisions. The goal is an understanding of chemical and physical rate processes from the fundamental, microscopic point of view. Primary attention is devoted to the physical phenomena and their conceptual interpretation rather than to the details of experimental techniques or theories. Assuming only an elementary background in physical chemistry, the book guides the reader from well-known principles to state-of-the-art research results.

Summer 1974 256 pp. 136 line drawings \$10.00

Circle No. 453 on Readers' Service Card



OXFORD UNIVERSITY PRESS
200 MADISON AVENUE
NEW YORK, N.Y. 10016

Personnel Placement

It is requested that only those employers who will not discriminate on the basis of race, sex, religion, color, or national origin submit positions open advertising.

POSITION WANTED: 40¢ per word, minimum charge \$10. Use of Box Number counts as 10 additional words. Payment in advance is required. These rates apply to individuals only. Personnel agencies and companies take display rate for all advertising.

POSITIONS OPEN: \$110 per inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Ads over 1 inch will be billed to the nearest quarter inch. Payment in advance is required except where satisfactory credit has been established.

COPY for ads must reach **SCIENCE** 4 weeks before issue date (Friday of every week). Send copy for Personnel Placement advertising to:

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

Replies to blind ads should be addressed as follows:

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

POSITIONS WANTED

Analytical Biochemist. Ph.D., female, radioimmunoassay, synthesis of antigens and routine testing, toxicology, drug screening. Desires position in medical center or industry. Box 231, **SCIENCE**. 5/17

Bachelor Chemical Engineering with long experience in organic coatings manufacture, development and formulation, desires to change career to either air pollution control, ecology, environmental engineering, oceanography, geography or meteorology. Willing to sacrifice salary for interesting position. Box 208, **SCIENCE**. 5/10

Biochemist/Chemist (Physiology). M.S., Ph.D. Broad research interest and experience, college teaching, pharmaceutical, hospital clinical chemistry, and cancer. Publications (East). No agencies. Early reply. Box 232, **SCIENCE**. X

Biophysics and Biochemistry. Ph.D. 1971. Postdoctoral experience using EPR, pulsed and Fourier transform NMR techniques to study the function of divalent cations in the mechanism of enzyme action. Familiar with enzyme kinetics and regulation. Many publications in well-reviewed journals. Desires research and/or teaching position. Box 233, **SCIENCE**. X

Cell Physiologist/Biochemist. Ph.D. (Caltech) 1969; presently on medical school faculty. Research interests: molecular mechanisms of hormone actions; publications. Also knowledgeable in developmental biology and genetics. Desires teaching with some research; other opportunities considered. W. A. Thomasson, 301 Wesley, Oak Park, Ill. 60302. X

Clinical Chemist. Ph.D. Board certified. Hospital experience as director of clinical chemistry 600-bed hospital. Medical school teaching experience with ample research publications. Desires hospital, academic, or private lab position preferably in Northwest or New England states. Box 234, **SCIENCE**. X

Electron Microscopist. B.S. Biology. Three years of medical research experience. Interested in techniques and instrumentation. Knowledgeable and competent in most phases of EM. Seeking a challenging biomedical position with opportunity for collaborative research. Box 235, **SCIENCE**. X

Generalist. Ed.D. (Interdisciplinary: Curriculum/Plant Ecology). Specialties: Resource-use education, science methods at all levels; 22 years of experience, high school and college. Strong teacher. Seeks position in teacher education/extension. Interdisciplinary areas of greatest interest. Publications are interdisciplinary in nature. Box 236, **SCIENCE**. X

Higher Plant Developmental Biologist. Ph.D. 1970. Two year postdoctorals: (i) Cell cycle kinetics, (ii) air pollutants-physiological effects. Publications, some teaching. Academic-industry. Box 226, **SCIENCE**. 5/10

POSITIONS WANTED

Economic Geologist. Ph.D. 1966. Publications. Desires academic research-teaching position in western United States. Strong theoretical background with interests in geophysics and geochemistry. Broad North American field exploration experience in shield and cordillera. Current research and publication on porphyry deposits. Box 149, **SCIENCE**. 5/10, 17

Microbial Geneticist. 27, Ph.D. (1970), 4 years of college teaching as assistant professor, desires change of career emphasis. If you can offer a dynamic, intelligent, and friendly individual a position in administration, research, or editing, please contact Box 237, **SCIENCE**. X

Microbiologist/Geneticist. Ph.D. 1969. Seeks position in biomedical or environmental health-related research. Postdoctoral experience with publications in yeast physiology and genetics, radiation biology and chemical mutagenesis. Available immediately. Box 238, **SCIENCE**. X

Pharmacologist. Ph.D. 1972. Seeks position preferably doing own research projects. Eight years of pre- and postdoctoral experience in CNS, autonomic and cardiovascular pharmacology, toxicology and medical chemistry. Classical biochemical and electrophysiological techniques. Publications. Box 239, **SCIENCE**. X

Physiologist. Ph.D. 1958. Broad medical and paramedical teaching experience. Developed several bioscience courses. Cardiovascular research including 28 publications. Desires academic position above assistant professor. Prefers Northeast. Box 240, **SCIENCE**. X

Toxicologist. Ph.D. in Toxicology, 1972. Two years of postdoctoral teaching and research experience. Strong in toxicology (mechanistic) and drug abuse. Seeks research/teaching position. Box 241, **SCIENCE**. 5/17, 24, 31

POSITIONS OPEN

ASSISTANT PROFESSOR, M.D., to take part in a project to be pursued in the hematology section of the department of medicine in cooperation with the department of physiology to apply modern physiological and biochemical methods to the investigation of the membrane characteristics of abnormal red blood cells. Applicant should have completed clinical training in order to undertake clinical responsibilities in the hematology section and have a strong background and interest in the metabolic and physiological properties of red cells. Send curriculum vitae and names of persons who may be requested to supply references to **Department of Physiology, 333 Cedar Street, New Haven, Conn. 06510**.

Applications from women and members of minority groups are encouraged.

ASSISTANT OR ASSOCIATE PROFESSOR

Ph.D. with major emphasis in microbiology and biochemistry. An interest in anaerobic microbiology as it relates to animal agriculture is essential. Conduct research, supervise graduate education, and teach in the ecology and metabolism of microbes in rumen-intestinal tract ecosystems, methanogenic systems for degradation of organic matter or related areas. Send résumé to **Dr. K. E. Harshbarger, Head, Department of Dairy Science, University of Illinois, Urbana, Illinois 61801**.

An Affirmative Action/Equal Opportunity Employer

UNIVERSITY OF TORONTO DEPARTMENT OF BOTANY

Applications are invited for up to three positions at the assistant professor level which will be available from 1 July 1974. It is expected that one appointment will be made in each of the following fields: (i) Plant Ecology, (ii) Plant Physiology, (iii) Mycology or Algology. Applications, together with the names and addresses of three referees, should be sent to **Dr. P. W. Ball, Erindale Campus, University of Toronto, Mississauga, Ontario L5L 1C6**. Closing date 17 May 1974.

ONE BIOCHEMIST AND ONE IMMUNOLOGIST

Two postdoctoral research positions for 2 years (minimum) to determine chromosome assignment and expression of human genes coding for either lysosomal enzymes, membrane proteins, or immunoglobulins in man-rodent somatic cell hybrids growing in tissue culture. Experience with isolation and identification of any one of these gene products required. Knowledge of tissue culture, genetics or cytogenetics is an advantage. Salary \$11,000 to \$12,000 depending on experience plus fringe benefits and annual increments. Send curriculum vitae, bibliography, and three letters of recommendation to: **Dr. Thomas B. Shows, Biochemical Genetics Lab., Roswell Park Memorial Institute, 666 Elm St., Buffalo, N.Y. 14203**. Telephone (716) 845-3108.

POSITIONS OPEN

PROFESSOR OF BIOCHEMISTRY

Applications are invited for this position to start during the 1974 academic year. Candidates should have recognized distinction in both research and teaching. Initial preference will be given to those in the areas of nucleic acid synthesis and function or protein synthesis. Please send résumé to: **Dr. P. G. Katsoyannis, Chairman, Department of Biochemistry, Mount Sinai School of Medicine of the City University of New York, Fifth Avenue and 100th Street, New York, New York 10029**.

An Equal Opportunity Employer

ASSISTANT PROFESSOR

Department of Entomology, Purdue University, vacancy for Assistant Professor. The responsibilities of the position include both research and extension in the area of economic entomology and development of pest management strategies for insect pests that attack vegetable crops.

Applicants should submit a complete résumé and request three letters of recommendation be sent to **Dr. Eldon E. Ortman, Head, Department of Entomology, by 1 June 1974**.

It is the policy of Purdue University to provide equal opportunity in employment without regard to race, religion, color, national origin, age or sex, except where age or sex is a bona fide occupational qualification.

DEPARTMENT OF PHYSIOLOGY UNIVERSITY OF WISCONSIN MEDICAL SCHOOL

Applications are invited for a faculty position, preferably at the Assistant Professor level, from candidates with a demonstrated interest in the physiology of excitable cells with emphasis on smooth muscle or motor aspects of the central nervous system.

Duties include participation in teaching physiology to undergraduate and medical students.

Send curriculum vitae, reprints and the names of three references to:

Chairman
Department of Physiology
University of Wisconsin Medical School
470 North Chester Street
Madison, Wisconsin 53706

*The University is an Equal Opportunity/
Affirmative Action Employer*

ASSISTANT RESEARCH SURGEONS, SURGICAL ONCOLOGY

The Division of Oncology, Department of Surgery, University of California, School of Medicine, has positions for Assistant Research Surgeons in Surgical Oncology (2 years of surgical residency required) and positions as Assistant Professor of Surgery. Experience in cancer surgery, tumor immunology, and chemotherapy preferred. Salary negotiable. *An affirmative action employer. Applications from women and minority groups encouraged.* Please direct inquiries to **Donald L. Morton, M.D., Chief, Division of Oncology, Department of Surgery, University of California School of Medicine, Los Angeles, Calif. 90024**.

BIOCHEMISTRY TECH.

Nucleic acid and protein analysis, some tissue culture. Requires B.S. in biochemistry or equivalent. Previous related laboratory experience required. Starting salary \$700 to \$800. Send résumé to **Pasadena Foundation for Medical Research, 99 N. El Molino Ave., Pasadena, Calif. 91101**.

TEMPORARY POSITION AVAILABLE DEPARTMENT OF BIOLOGY UNIVERSITY OF CALIFORNIA, RIVERSIDE

Applications are invited for a temporary position beginning in September 1974 as a sabbatical leave replacement to teach courses in population ecology or physiological ecology. Appointment as a Lecturer will be at the salary level of Assistant Professor. A balanced department of 26 biologists invites applications from all qualified individuals and especially from women and minority candidates. Please send inquiries and a résumé, including a list of three individuals from whom we might seek recommendations, to **Dr. Frank C. Vasek, Chairman, Department of Biology, University of California, Riverside, Calif. 92502**.

BUSINESS-ORIENTED CHEMIST, ENGINEER OR SCIENTIST

Who would like an opportunity to develop the seeds of our ideas to commercial profitability. A rare entrepreneurial opportunity. Northeastern location.

Box 242, SCIENCE

POSITIONS OPEN

CHAIRPERSONS

The new Uniformed Services University of the Health Sciences to be located in Bethesda, Maryland, is actively seeking Chairpersons for the following departments:

ANATOMY, BIOCHEMISTRY, MICROBIOLOGY, PATHOLOGY, PHARMACOLOGY, AND PHYSIOLOGY. Positions open July 1974 or earlier.

Qualified applicants are invited to submit a curriculum vitae, a summary of teaching and postdoctoral experience, a statement of their philosophy on medical education within a health science center, and the names of three persons qualified to assess the candidate's teaching and research potential.

Forward to:

Anthony R. Curreri, M.D.
President, Uniformed Services University of the Health Sciences
Room 3E-988, Pentagon
Washington, D.C. 20301
Area Code 202/697-8650

An equal opportunity employer

CHAIRMAN OF PHARMACOLOGY

Applications and nominations are invited for the position of Chairman, Department of Pharmacology, University of Massachusetts Medical School, starting September 1974. Please send résumé to **Chairman, Pharmacology Search Committee, Box 335, University of Massachusetts Medical School, 55 Lake Avenue, North, Worcester, Massachusetts 01605.** We are an affirmative action employer.

CURATORIAL TRAINEE

Applications are wanted for Curatorial Trainees in our Mammalogy and Ornithology departments. The individual applying must possess an advanced degree in Biology and Zoology. Ph.D. is preferable. The applicant must have a strong desire to make the management of captive wild animals their life work. The candidate must be able to write for technical and popular audiences, take charge of projects, manage animal care staff, establish care and feeding techniques, exhibit design, and identify and label specimens. Applicants should submit a curriculum vitae to Box 245, **SCIENCE. AN EQUAL OPPORTUNITY EMPLOYER.**

DIRECTOR OF THE DEPARTMENT OF PUBLIC RESPONSIBILITIES

The American Institute of Biological Sciences (AIBS) invites applications for the head of its newly formed Department of Public Responsibilities. The appointee will report directly to the Executive Director of the AIBS, and will have the primary role of enhancing communication between the Institute and its Adherent Societies, its State Public Responsibilities Officers, and appropriate elements of state and federal government.

Applicants need not be professional biologists, although some background in biology or familiarity with biological concepts would be advantageous. Their experience should evidence understanding of the dynamics of scientific societies and legislative procedures and the functions of government and academic institutions.

Salary will depend on qualifications and experience. Applicants will be considered without regard to race, religion, sex, or national origin.

Applications, together with curriculum vitae and the names of three referees, should be received before 1 July 1974, by: **Dr. George Sprugel, President, American Institute of Biological Sciences, 1401 Wilson Boulevard, Arlington, Va. 22209.**

EXECUTIVE DIRECTOR

The American Institute of Biological Sciences (AIBS) invites applications for the position of Executive Director.

The AIBS is an affiliation of some 40 adherent professional societies having a membership numbering 80,000, and of 12,000 individual members. The purpose of the AIBS is to serve and unify the agricultural, biological, and medical sciences.

Applicants must possess the earned doctorate and evident achievement and stature in a biological discipline. The position requires a high degree of judgment and administrative ability and the capacity to communicate with adherent societies, the community of biologists, and with society at large.

The salary is competitive and will be commensurate with experience and qualifications. Applicants will be considered without regard to race, religion, sex, or national origin.

Letters of application with curriculum vitae and publication lists, together with the names of three referees, should be received prior to 1 June 1974 by: **Dr. George Sprugel, President, American Institute of Biological Sciences, 1401 Wilson Boulevard, Arlington, Va. 22209.**

POSITIONS OPEN

TWO FACULTY POSITIONS

Available for child psychiatrists at the Youth Services, Department of Psychiatry, University of Michigan Medical School. Candidates must be very experienced clinical child psychiatrists. Duties include some direct service to patients, supervision and teaching of residents, child fellows, and medical students. Expertise in dynamic psychiatry essential. Knowledge of other modalities including behavior therapy desirable. Demonstrated capacity for research extremely important. Professorial rank dependent on experience and qualifications. Send résumé to **Box 243, SCIENCE.**

A Nondiscriminatory Affirmative Action Employer

TWO FACULTY POSITIONS

Available in the Youth Services, Department of Psychiatry, University of Michigan Medical School. Training as child psychoanalysts desirable. To function as child therapists, supervisors, teachers of residents and child fellows, medical students, psychology interns, social work students, and so forth. One position will be for the outpatient department, and the other one will be for inpatient services. Published research experience a distinct asset. Professorial rank dependent on experience and qualifications. Send résumé to **Box 244, SCIENCE.**

A Nondiscriminatory Affirmative Action Employer

FACULTY POSITIONS/NEUROLOGY

The Medical College of Wisconsin, an equal opportunity/affirmative action employer, invites applications from Board certified or Board eligible neurologists for full-time faculty positions in its new Department of Neurology. An active and integrated clinical service with a variety of opportunities for investigation exists at the Milwaukee County Medical Institutions, the Milwaukee Children's Hospital, and the Wood Veterans Administration Hospital. Interested parties should submit curriculum vitae and professional references to: **Dr. Michael P. McQuillen, Chairman, Department of Neurology, The Medical College of Wisconsin, 8700 West Wisconsin Avenue, Milwaukee, Wisconsin 53226.**

FACULTY POSITION IN ENVIRONMENTAL STUDIES with emphasis on resource management and planning. Ph.D., teaching experience, evidence of scholarly activity required. Duties include teaching in master's level program; assist with development of environmental studies program; research. Rank and salary open. Joint appointment with local agency desired.

FACULTY POSITION IN BIOLOGY with emphasis on ecological systems and limnology. Ph.D., teaching experience, evidence of scholarly activity required. Duties include teaching in master's level program; development of environmental studies program; research. Rank and salary open. Interested applicants send résumé, transcripts and references to **Dr. Richard Barnard, Dean, Faculty of Engineering and Science, West Virginia College of Graduate Studies, Institute, West Virginia 25112.**

An equal opportunity employer

HEAD, DEPARTMENT OF ENTOMOLOGY OREGON STATE UNIVERSITY

The Department of Entomology at Oregon State University invites applications for the position of Department Head. Position open 1 September 1974; completed applications should be received by 1 July 1974. *Oregon State University is an Affirmative Action, Equal Opportunity Employer and encourages applications from women and minority group members.* For further information about the department and the position requirements, write

Paul Oman
Chairman of Nominations Committee
Department of Entomology
Oregon State University
Corvallis, Ore. 97331

DEPARTMENT HEAD STANFORD MEDICAL SCHOOL

Basic science department with responsibility for teaching in the areas of Biologic Structure and Function (gross and microscopic anatomy, cell biology, and physiology) to medical and graduate students. Applicants will be evaluated on the basis of standing in the national research community, proven teaching, and administrative competence as well as potential effectiveness in cooperating with members of clinical departments in teaching organ physiology.

Send applications, including up-to-date résumé, bibliography, and three letters of recommendation by no later than 1 June 1974 to: **Search Committee for Department of Biologic Structure and Function, Stanford University School of Medicine, Stanford, Calif. 94305.**

Stanford University is an Equal Opportunity Employer and has an Affirmative Action program.

POSITIONS OPEN

ELECTRON MICROSCOPIST

M.D. or Ph.D. to participate in research studies involving mammalian cardiac tissue. Permanent appointment, federal Civil Service salary and fringe benefits. Please submit curriculum vitae to: **Anthony N. Damato, M.D., Department of Cardiology, U.S. Public Health Service Hospital, Staten Island, N.Y. 10304.**

Equal Opportunity Employer

INSTRUCTOR (PESTICIDE CHEMISTRY) (ONE YEAR, LEAVE REPLACEMENT)

Opening available for the period 1 July 1974 to 30 June 1975 for replacement of a faculty member on sabbatical leave. The position involves assistance in teaching a one-semester (fall semester) course in the Chemistry of Pesticides and research on an ongoing project on pesticides in the marine environment. The position is at the Instructor level at a calendar year salary of \$11,000. Candidates for this position should have a Ph.D. in some field of environmental chemistry and have at least 1 year's experience at the postdoctoral level in the field of pesticide research. Send curriculum vitae and three references to **George T. Felbeck, Jr., Chairman, Department of Food and Resource Chemistry, University of Rhode Island, Kingston, R.I. 02881.**

The University of Rhode Island is an equal opportunity/affirmative action employer. Minorities and women are encouraged to apply. The deadline for receiving applications is 14 June 1974.

THE UNIVERSITY OF ADELAIDE

invites applications for appointment as a **LECTURER IN ORAL BIOLOGY (Pharmacology)** from, preferably, September 1974 and no later than February 1975.

The Department of Oral Biology, which is responsible for teaching undergraduate dental students in the biomedical sciences, conducts courses in general and applied anatomy, microbiology, applied physiology and pharmacology. The lecturer's teaching duties will lie within the general fields of Pharmacology and Applied Physiology and he will be expected to conduct research in his field of interest. An applicant should possess an appropriate postgraduate qualification in pharmacology; it is not essential that he hold a dental qualification although this could be advantageous.

The Department has a strong postgraduate research programme and the lecturer will be encouraged to supervise Honours and higher degree candidates. Further information about duties, facilities, and so forth, may be obtained from the Chairman of the Department, Professor J. C. Thonard; inquiries about conditions of appointment should be addressed to the Registrar.

SALARY SCALE: \$A8,698-470(1)-469(6)-11,982; with superannuation on the F.S.S.U. basis. Initial salary will be fixed within the scale in accordance with qualifications and previous experience.

FURTHER INFORMATION, including list of particulars required in an application, is available from the Registrar of the University or from the Secretary-General, Association of Commonwealth Universities (Appts), 36 Gordon Square, London, WC1H 0PF.

APPLICATIONS should reach the Registrar, **G.P.O. Box 498, Adelaide, South Australia, 5001**, not later than **31 May 1974.**

MATHEMATICAL ECOLOGIST

Junior faculty appointment available July 1974. Duties include teaching undergraduate and graduate courses in population and mathematical ecology and initiating a vigorous research program in experimental and theoretical ecology. Candidates must be competent in *both* biology and mathematics. Inquiries are especially invited from (but not limited to) women and minority group applicants. Submit curriculum vitae, names of four referees, bibliography, and a description of research to:

Dr. H. B. Chase
Section of Population Biology and Genetics
Division of Biological and Medical Sciences
Brown University
Providence, R.I. 02912

POSITIONS OPEN

AUSTRALIAN INSTITUTE OF MARINE SCIENCE

General: The Australian Institute of Marine Science has been established as a Statutory Authority by Act of the Australian Parliament. Under its Act, the Institute will perform research in marine science and cooperate with other institutions performing research in marine science. The Institute will be located at Cape Ferguson, south-east of Townsville, and will have as its principal early objective the study of the Great Barrier Reef and neighbouring waters.

The posts advertised below are the first professional appointments to be made since the appointment of Professor M. Gilmartin as Director. Other appointments extending the range of the Institute's activities within the scope of marine science will be made as soon as possible.

RESEARCH LEADERS

Field: Reef Morphology

Duties: To initiate a program and lead a multi-disciplinary team concerned principally with the morphology (physical/biological/structural) of the Great Barrier Reef.

Qualifications: A Ph.D. degree or equivalent qualification, with extensive research experience and demonstrated research ability. Scientific leadership qualities are essential.

Salary: Appointment will be made within the salary ranges of Principal Research Scientist or Senior Principal Research Scientist: \$A14,882 to \$A20,005 per annum.

Field: Inshore Ecology and Productivity

Duties: To initiate a program and lead a team principally concerned with conducting basic research on the ecology and production of tropical inshore and estuarine waters including mangrove communities.

Qualifications: A Ph.D. degree or equivalent qualification in biology, demonstrated scientific leadership qualities and research ability.

Salary: Appointment will be made within the salary ranges of Senior Research Scientist or Principal Research Scientist: \$A12,298 to \$A17,077 per annum. An outstanding applicant may be offered appointment at a higher level.

RESEARCH SCIENTIST/SENIOR RESEARCH SCIENTIST

Field: Marine Pollution

Duties: To conduct basic research on marine pollution and to develop and supervise a pollution laboratory.

Qualifications: A Ph.D. degree or equivalent qualification in chemistry or biology, with research ability and thorough familiarity with flameless atomic absorption spectrometry, mass spectrometry, and gas chromatography.

Salary: Appointment will be made within the salary ranges of Research Scientist or Senior Research Scientist: \$A9,380 to \$A14,290 per annum.

SCIENTIFIC SERVICES OFFICER

Field: Information Officer/Librarian

Duties: To establish, acquire and administer a specialized marine science library and a current awareness service for a senior scientific staff of about 25.

Qualifications: A recognized library qualification is necessary. A degree in a natural science and some understanding of the technology applicable to library and information services are desirable.

Salary: Appointment will be made within the salary range of Scientific Services Officer: \$A9,397 to \$A12,364 per annum. An outstanding applicant may be offered appointment at a higher level.

Tenure: All positions are permanent and carry the superannuation benefits provided for permanent officers of the Australian Government, unless otherwise negotiated between the Institute and a successful applicant. Fixed term appointments are possible. Reasonable relocation expenses will be met by the Institute.

Applications: Applications, giving details of qualifications, experience and personal particulars and the names of three professional referees are invited for the positions described. They should be addressed to the Secretary, The Australian Institute of Marine Science, P.O. Box 119, Woden, A.C.T. Australia, 2606.

CLOSING DATE: 30 June 1974

POSITIONS OPEN

PATHOLOGISTS

Applications are sought for pathologists in the following positions at the level of either assistant or associate professor with interest in gastroenterology, genetics, biochemistry, microbiology, immunology, and cytopathology. Send curriculum vitae and references to:

Dr. Jacob L. Chason, Chairman
Department of Pathology
Wayne State University School of Medicine
540 East Canfield Avenue
Detroit, Michigan 48201

An Equal Opportunity/Affirmative Action Employer

Ph.D. PATHOLOGIST

Responsibility for teaching general Pathology to second-year medical students. Three lectures and four lab hours weekly during academic year. Emphasis on teaching excellence. Research encouraged but not mandatory. Faculty rank and salary commensurate with qualifications. Modern 426-bed hospital. Send curriculum vitae to **Dr. E. H. Whitten, Associate Dean for Academic Affairs, College of Osteopathic Medicine, 2105 Independence Blvd., Kansas City, Mo. 64124. Tel.: 816-283-2402.**

The Physics Department of the University of California at Berkeley anticipates that a faculty position will soon be open in experimental solid state physics, and invites applications from physicists who combine specialist backgrounds in the physics of semiconductors and modern ultraviolet and x-ray photoemission spectroscopy of solids. Candidates must possess the ability to conduct original research of significance. Applications should be submitted to **Professor Marvin Cohen, Physics Department, University of California, Berkeley, California 94720**, and should be received before 1 August 1974.

Equal Opportunity/Affirmative Action Employer

PHYSIOLOGIST

Opportunity to develop physiology component of an integrated curriculum in a baccalaureate program for new primary health care practitioners—health associates. Assistant professor level. *An Equal Opportunity Employer.* Send curriculum vitae to: **Archie S. Golden, M.D., Director, Health Associate Program, The Johns Hopkins University School of Health Services, 624 North Broadway, Baltimore, Maryland 21205.**

PLANT ECOLOGIST

Interim (1 year) appointment beginning September 1974. Ph.D. required. Send résumé before 31 May 1974 to

Dr. R. C. Smith, Chairman
Search Committee
Department of Botany
University of Florida
Gainesville, Fla. 32611

The University of Florida is an Equal Opportunity Employer.

PLANT PHYSIOLOGIST

Position available September 1974 for assistant professor to conduct research and teach undergraduate and graduate courses in plant physiology and botany. Prefer very recent Ph.D. and specialty in desert eco-physiology. Direct inquiries immediately to **Dr. W. Glen Bradley, Chairman, Department of Biological Sciences, University of Nevada, Las Vegas, Nev. 89154.** *An equal opportunity/affirmative action employer M/F*

POSTDOCTORAL APPOINTMENT IN SOLID STATE PHYSICS

Research areas include theoretical band structure studies of transition metal oxides and carbides, experimental nuclear magnetic resonance studies of hydrogen motion in transition metals and alloys, experimental superconductivity, and theoretical aspects of optical properties, photoemission, and collective phenomena in solids.

Please send detailed résumé to:

Personnel Office
Ames Laboratory
U.S. Atomic Energy Commission
Iowa State University
Ames, Iowa 50010

RESEARCH STATIONS

The American Museum of Natural History is pleased to be able to advise all prospective applicants to

The Archbold Biological Station
The Lerner Marine Laboratory
The Southwestern Research Station

that there is currently sufficient fuel available at these field stations for normal research activities and that no fuel shortages are foreseen.

Inquiries about the Museum's research stations should be addressed to: **Deputy Director for Research, The American Museum of Natural History, Central Park West at 79 Street, New York, New York 10024.**

POSTDOCTORAL FELLOWS ASSISTANT RESEARCH ONCOLOGISTS ASSISTANT PROFESSORS

The Division of Oncology, Department of Surgery, University of California School of Medicine, has research positions for postdoctoral fellows in tumor immunology and virology. Experience in immunochemistry, tumor immunology, and viral oncology preferred. Salary commensurate with experience. *An affirmative action employer.* Applications from women and minority groups encouraged. Please direct inquiries to **Donald L. Morton, M.D., Chief, Division of Oncology, Department of Surgery, University of California School of Medicine, Los Angeles, Calif. 90024.**

PRIMATE REPRODUCTIVE BIOLOGIST (SENIOR INVESTIGATOR)

Core Staff member of the Regional Primate Research Center at the University of Washington. To be in charge of reproductive studies at the primate breeding colony of the Field Station located at Medical Lake, Washington. Essential characteristics: (i) Ph.D., (ii) extensive experience with nonhuman primate reproduction, (iii) research experience in ovulation and production of timed pregnancies, and (iv) good history of successful grant applications.

Apply to **Dr. Orville A. Smith, Director, Regional Primate Research Center, University of Washington, Seattle, Washington 98195.** *An Equal Opportunity/Affirmative Action Employer.*

CSIRO DIVISION OF FISHERIES AND OCEANOGRAPHY

Field: Crustacean Biology

General: The Division has a staff of more than 40 scientists investigating fisheries resources and the physical, chemical, and biological features of the oceans. Headquarters of the Division is located at Cronulla, Sydney, and the Division has laboratories in Perth and near Brisbane.

The prawn research programme is currently based at Cronulla, but when the new laboratories are completed at Cleveland, near Brisbane, during 1975, it will be based there. This programme is one of the largest in the Division, and is currently being reorganized on a wide basis to include general ecology, population dynamics, and behavioural and physiological studies. The Division currently owns a fully fitted twin-rig trawler as well as a number of smaller vessels.

While the headquarters of the prawn programme will be in Brisbane, and personnel will be based there, a large part of the appointees' time will necessarily be spent in the Gulf of Carpentaria operating from Karumba where the Division has a field station.

Duties: Three research positions have been created for field ecological studies of larval and postlarval, juvenile, and adult phases of the life cycle of prawn species of major commercial importance in the Gulf of Carpentaria.

1) **Larval and postlarval stages.** This investigation will be concerned with the factors affecting distribution, abundance and recruitment of the larvae into the postlarval "nursery" grounds, and will involve a cooperative programme with the Water Movements and Properties Group of the Division, ranging over a major part of the Gulf. Some research will necessarily involve identification of larval stages.

2) **Juveniles.** These stages are found in the tidal regions of the numerous rivers fringing the Gulf, and in shallow inshore waters. The aim of this section of the programme is to acquire a thorough understanding of the biology of this important phase, and of the physical and biological factors which control their entry into the fishery.

3) **Adults.** Work in this section will involve close cooperation with the population dynamics and experimental behaviour groups. Factors controlling distribution and abundance will be investigated, and it is anticipated that a considerable part of the research will be devoted to the substrate and biota of commercial trawling grounds, and the effects of trawling on these areas.

It is expected that one of these appointments will be made at a relatively senior level, and that such an appointee will be in charge of the ecological part of the programme.

Qualifications: Applicants should have a Ph.D. or equivalent qualifications, in a relevant field of biology together with demonstrable research ability. For the senior appointment, substantial postgraduate experience in aquatic ecology is essential.

Salary: Appointment will be made within the salary ranges of Research Scientist \$9,380 to \$11,827 per annum, Senior Research Scientist \$12,298 to \$14,290 per annum, or Principal Research Scientists \$14,882 to \$17,077 per annum.

Tenure: An indefinite or fixed term appointment may be negotiated. An indefinite appointment carries Australian Government superannuation benefits.

Applications stating full personal and professional details, the names of at least three referees, and quoting reference number 320/512 should reach: **The Chief, Division of Fisheries and Oceanography, CSIRO, P.O. Box 21, Cronulla, N.S.W. 2230 Australia**, by 26 May 1974.

POSITIONS OPEN

FREE-LANCE WRITERS

To work on college-level textbooks in the biological and social sciences. Must have good skills in organizing and developing complex material. Send résumés and writing samples to:

Box SM281, 810 7th Ave. N.Y.C. 10019

An Equal Opportunity Employer M/F

GEOPHYSICAL FLUID DYNAMICIST

Research Scientist (Ph.D.) in geophysics, applied math, or fluid dynamics to join an ongoing research program in the dynamics of ocean tides. Research experience in this area of research preferred. Please send résumé to:

Dr. John T. F. Kuo
Lamont-Doherty Geological Observatory
Palisades, New York 10964
An Equal Opportunity Employer

ICHTHYOLOGIST

The Section of Ecology and Systematics at Cornell University has an opening for an ichthyologist commencing fall 1974. Teaching responsibilities include a one-semester course each year in biology of fishes plus participation in a course in vertebrate biology. Additional responsibilities include curating fish collection. Individual will be expected to develop an active research program; credentials should demonstrate this potential. Applicants should mail curriculum vitae, reprints, a summary of teaching and research plans, and names of four references to: Dr. Simon A. Levin, Chairman of the Search Committee, Ecology and Systematics, Cornell University, Ithaca, New York 14850.

Cornell University is an equal opportunity/affirmative action employer.

POSITIONS OPEN

LINCOLN UNIVERSITY COLLEGE OF AGRICULTURE NEW ZEALAND LECTURER/ SENIOR LECTURER IN ENTOMOLOGY

The Council of Lincoln College invites applications for the above-mentioned position. Preference will be given to applicants with doctoral qualifications, some experience of New Zealand agricultural practices, and with proven research interests in pest management, population ecology and/or other fields of entomology associated with applied agricultural problems.

The successful applicant will be appointed as Lecturer or Senior Lecturer according to qualifications and experience. Present salary scales are: Lecturer NZ\$6575-NZ\$8343; Senior Lecturer NZ\$8489-NZ\$9963 (BAR), NZ\$10,259-NZ\$10,846. New Zealand Government Superannuation available.

Conditions of Appointment giving further details of this position can be obtained from the Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H 0PF, or from the Registrar of the College.

Applications close on 30 June 1974.

MARINE SCIENCE LIBRARIAN

Position requires a B.S. in one of the natural sciences as well as an M.L.S. Significant experience in a Science Library required; experience in a Marine Science Library is preferred. The successful applicant will take charge of an expanding marine science library facility, and be completely responsible for meeting the reference needs of over 300 faculty, research staff, and students. Experience in squeezing blood from turnips and the ability to leap tall buildings in a single bound would be of inestimable value. The position will be available after 1 June 1974. Rank and salary are open.

Send résumé and names of three references to: Librarian Search Committee, c/o Dr. James S. Mattson, Rosenstiel School of Marine and Atmospheric Science, University of Miami, 10 Rickenbacker Causeway, Miami, Florida 33149. The University of Miami is an equal opportunity/affirmative action employer.

POSITIONS OPEN

NEUROBIOLOGISTS

The Anatomy Department of the University of California, Los Angeles 90024, expects to have some postdoctoral research positions available during the next school year in the general area of neurobiology (for example, one for a person experienced in the Wiener technique of gaussian white noise analysis as applied to neural systems, one to study the action of steroids and catecholamines in cell cultures of neurons and glia). Interested investigators should contact Dr. Jose P. Segundo and include a curriculum vitae. The University is an Equal Opportunity, Affirmative Action employer, so candidates will be judged solely on the basis of their qualifications.

OCEANOLOGIST

Research Scientist (Ph.D.) in oceanography-paleo-oceanography, paleoclimatology, to become member of ongoing research in CLIMAP Project. Required background in statistical analysis (transfer function, time series), marine geology, micropaleontology, physical oceanography. Position open 1 May. Please send résumé to:

Dr. Andrew McIntyre
304 Oceanography
Lamont-Doherty Geological Observatory
Palisades, New York 10964
An Equal Opportunity Employer

PLANT OR MICROBIOLOGICAL BIOCHEMIST

Assistant Professor (Ph.D. required) to conduct independent and cooperative research programs in biochemical problems of native plants related to the subarctic and arctic environment. Postdoctoral and northern environmental experience preferred. Opportunity exists for graduate student advising and limited teaching. Salary dependent on experience. Interested candidates should send curriculum vitae and reprints and have three letters of recommendation sent to G. C. West, Institute of Arctic Biology, University of Alaska, Fairbanks, Alaska 99701.

An equal opportunity/affirmative action employer

ENERGY

The health of this nation's economy during the next decade will be determined by how well we cope with the uncertainties of energy matters. To provide an authentic discussion of industrial, government, academic, and private options for the coming years, Science published on 19 April a special issue completely devoted to these topics. Already the issue is being used in classrooms, seminars, and industrial and academic discussion groups and conferences. Use the coupon below to obtain the copies you need for your group at reduced back-issue rates for multiple-copy orders.

Write to:
Energy Issue, Department NRG
Science—AAAS
1515 Massachusetts Avenue, NW
Washington, D.C. 20005

Orders of 1 to 9 (payment with order): \$2 each. Orders of 10 or more: \$1.75 each. Orders of 50 or more: \$1.50 each. Reprints of individual articles: 40¢ each (minimum order \$2).

Name _____ (Please print)

Address _____

City _____ State _____ Zip _____

Send _____ copies. Purchase order No. _____

Make checks payable to AAAS

AAAS Memberships and Subscriptions

- Whenever you write us about your membership or subscription, please attach a Science address label to assure prompt service.

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

- ☐ Change of Address: Please provide 6 weeks' notice. Paste an address label from a recent issue in the space provided. Print new address below.

- ☐ Query: If you have a question, place your address label here and attach this form to your letter.

- To join or subscribe: Mail this form with your payment, mark the appropriate boxes, and print your name and address in the space below. (For renewals, attach label.)

- ☐ Membership rates (individual only)

- ☐ \$21 USA ☐ \$26 Canada, PUAS ☐ \$27 Foreign
- ☐ \$41 Airlift to Europe, North Africa, Near East

- ☐ Subscriber rates

- ☐ \$40 USA ☐ \$46 Canada, PUAS ☐ \$48 Foreign
- ☐ \$60 Airlift to Europe, North Africa, Near East

- ☐ Payment enclosed ☐ Bill me later

Name _____ Please print

Address _____

City _____ State _____ Zip _____

ATTACH LABEL HERE

MJD5

POSITIONS OPEN

POSTDOCTORAL FELLOW

Knowledgeable with techniques in cell culture and nucleic acid metabolism. Excellent opportunity for education in enzyme induction in eukaryotic cells.

Apply, with three references, to Prof. E. S. Canellakis, Department of Pharmacology, Yale University School of Medicine, New Haven, Conn. 06510.

THREE POSTDOCTORAL POSITIONS

Recent Ph.D.'s to undertake research in genetics or cell biology. Appointments open 1 July 1974. Applicants should submit a curriculum vitae, a brief statement of research interests, and three letters of reference to

Frederick Forro, Jr.
Head, Department of Genetics and Cell Biology
250 BioScience Center
University of Minnesota
St. Paul, Minnesota 55108

An Equal Opportunity Employer; Applications from Women and Minority Persons Encouraged

PREDOCTORAL ASSISTANTSHIPS AND TRAINEESHIPS

In Oncology, Immunology, Microbiology, Virology, and Molecular and Cellular Biology. Prerequisites: B.S. degree in biology, chemistry, or related fields with B average or better and high G.R.E. score. U.S. citizenship required. Traineeships and assistantships available. Inquiries should be submitted to: Dr. Sheldon Dray, Head, Department of Microbiology, University of Illinois Medical Center, P.O. Box 6998, Chicago, Illinois 60680.

RESEARCH ASSOCIATE POSITIONS are available for applicants with Ph.D. degrees with research experience in the following areas: **Growth**—electron microscopic cytochemistry of enzymes and biomacromolecules, also physical and chemical characterization of components of connective tissue ground substance. **Biomaterials**—(i) physical chemistry and polymer science to study Trommsdorff gel effect or (ii) quantitative evaluation of cells on surfaces to study attachment of fibroblasts to polymers. **Mineralization**—(two positions) (i) biochemist in protein chemistry familiar with separation and isolating techniques (proteins, peptides, or amino acids), end group analysis, sequencing techniques, and connective tissue chemistry; (ii) electron microscopic autoradiography of cells forming extracellular matrix of mammalian supporting tissues including hard tissues. **Hemostasis**—biochemist or physiologist experienced in effect of calcium on erythrocyte membranes. *The University of North Carolina is an equal opportunity employer and encourages applications from women and members of minority groups.* Address curriculum vitae to: Mr. Albert C. Windham, Executive Officer, Dental Research Center, University of North Carolina, Chapel Hill, North Carolina 27514.

RESEARCH ASSOCIATE

Newly created Division of Endocrinology requires a research associate. Ongoing studies in the laboratory are primarily in the field of thyroid physiology and biochemistry (involving enzymology, intermediary metabolism, and a variety of radioimmunoassay techniques). The individual being sought should have an M.S. or Ph.D. with a broad background in endocrinology, biochemistry or pharmacology, and statistics, extensively versed in research methodology with a demonstrable capacity for independent research. Salary commensurate with ability and qualifications. Send résumé to Mr. Art Miller, Assistant Employment Director.

COOK COUNTY HOSPITAL
1900 W. Polk Street
Chicago, Illinois 60612
Equal Opportunity Employer

RESEARCH ASSOCIATE OR POSTDOCTORAL FELLOW

A position for a Research Associate or Postdoctoral Fellow is now available. The primary function of the person filling this position will be to study control of gene expression in mammalian somatic cells cultivated in vitro. Send curriculum vitae with names of three references to: Dr. John Morrow, Department of Biochemistry, Texas Tech University School of Medicine, Lubbock, Texas 79409. *Texas Tech University School of Medicine is an equal opportunity employer/affirmative action employer.*

POSITIONS OPEN

SCIENTIST

M.D. or D.V.M. experimental pathologist for career in collaborative research with scientists in a variety of biomedical disciplines. Should be scientifically creative and productive. Qualified applicants should send detailed résumé in confidence to

J. B. Carter
Litton Bionetics, Inc.
5541 Nicholson Lane
Rockville, Md. 20852 EOE/M-F

SCIENTIST/TECHNOLOGIST

The World Bank, an international organization providing assistance to developing countries, is seeking a Scientist/Technologist to analyze technological aspects of development policy, to organize missions to developing countries to survey scientific and technological institutions and policies, and to promote national and international programs of technological research on problems of importance to developing countries.

Qualifications desired are Ph.D. in natural sciences or engineering with experience in one or more of the following areas: technology policy, forecasting or assessment; economics; applied research management. Advanced degree plus extensive experience in research or research management may be substituted for a Ph.D.

Salaries are competitive and fringe benefits attractive.

Please send detailed résumé to:

Personnel Department
International Bank
for Reconstruction and Development
1818 H Street, NW
Washington, D.C. 20433

SENIOR CURATOR, BOTANY

To head Botany Section. Curatorial and research position with an emphasis on cryptograms. Opportunity for field trips. Requires Ph.D. and 3 years of experience. Competitive salary. Submit applications by 19 July 1974 to William Emboden, Botany Section, Natural History Museum, Los Angeles, County, 900 Exposition Boulevard, Los Angeles, Calif. 90007.

An equal opportunity and affirmative action employer.

TWO POSITIONS

1) **Vertebrate Biologist.** Teach general biology, vertebrate physiology, and invertebrate zoology. Electron microscope experience helpful. Ph.D. required.

2) **Master of Science in Biology.** Duties to teach courses in anatomy and physiology for nursing students in general biological sciences and to supervise general biology laboratories.

Address all correspondence to:

Joseph T. Evans, Ph.D.
Chairman, Biology Department
University of Scranton
Scranton, Pa. 18510

The University of Scranton is an Equal Opportunity and Affirmative Action Employer.

Salary and rank negotiable.

VETERINARIAN-BIOCHEMIST

Veterinarian with training in biochemistry needed to participate in a study of inborn errors of metabolism in domestic animals. For details contact

Dr. D. F. Patterson
Section of Medical Genetics
School of Veterinary Medicine
University of Pennsylvania
Philadelphia, Pennsylvania 19174

FELLOWSHIPS

PRE- AND POSTDOCTORAL FELLOWSHIPS

Evolution and Development of Behavior. American Museum of Natural History/City University of New York. Write:

Dr. H. P. Zeigler, Director
Department of Animal Behavior
American Museum of Natural History
New York, New York 10024

FELLOWSHIPS

FELLOWSHIP IN RENAL AND MEMBRANE PHYSIOLOGY

A fellowship commemorating Dr. Louis G. Welt has been established by the Department of Medicine, University of North Carolina, Chapel Hill, for 2 years' support of an M.D. or Ph.D. interested in postdoctoral research in the areas of nephrology or membrane physiology. Recipient would concentrate in one of several areas including renal physiology, epithelial transport, endocrinology of ion and water metabolism, hormones and membranes, or red blood cell transport. Interested parties should communicate with the Chairman, Department of Medicine, University of North Carolina-Chapel Hill, Chapel Hill, North Carolina 27514. Deadline for receipt of applications: 1 November 1974.

POSTDOCTORAL FELLOWSHIPS

In biochemical genetics (somatic cell hybridization) and tumor immunology for applicants holding the Ph.D. or M.D. degree available. Apply with curriculum vitae to: Dr. D. M. Goldenberg, Department of Pathology, University of Kentucky Medical Center, Lexington, Kentucky 40506.

An Equal Opportunity Employer

UNIVERSITY OF WASHINGTON, DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, is accepting applications from academically directed M.D.'s who are U.S. citizens or holders of permanent visas (immigrant) for NIH-sponsored fellowships in gynecologic endocrinology. Available 1 July 1974. *An equal opportunity—affirmative action employer.* Dr. W. L. Heinrichs, Department of Ob-Gyn RH-20, School of Medicine, University of Washington, Seattle, Wash. 98195.

CONFERENCE

The First Annual National Conference on Biomedical Research Problems in a Changing World has been held at the Sheraton Park in Washington, D.C., on 5, 6, and 7 February 1974 sponsored by the University of Maryland and Medi-Science, Inc. The latest developments and breakthroughs in such strategic activity areas of biomedicine as Heart, Vascular and Kidney Studies; Cancer Studies; Prosthesis Developments; Instrumentation; Health Care Delivery and Biomedical Ethics has been presented by the leading scientists of the country. For a copy of the *Proceedings*, send \$10 to Conference, Medi-Science, Inc., P.O. Box 637, Laurel, Maryland 20810.

CONFERENCE MANAGEMENT

Expansion of Multi-Disciplined Conference Division of small company welcomes opportunities to plan, program, and implement all aspects of running seminars, symposia, and conferences in all areas of science. Successful track record.

For handling your conference write Conference, Medi-Science Inc., Box 637, Laurel, Md. 20810, or phone (301) 652-4700.

COURSES

INTRODUCTORY ELECTRON MICROSCOPY

Cornell University—1-12 July 1974

A course designed for scientists, either physical or biological, who would like to apply microscopical techniques to their research or development programs. The course provides a sound basis upon which participants can develop their competence in microscopy. The course will consist of lectures, demonstrations, and laboratory practice. Instructors are Sydney S. Breese, Jr., of the Plum Island Animal Disease Laboratory and George G. Cocks of Cornell University. Tuition is \$550. For more information write or call Professor George G. Cocks, Olin Hall, Cornell University, Ithaca, N.Y. 14850. Phone 607/256-5268.

MARKET PLACE

POLYMERIC ENZYMES INC.

12 Bridgeport Rd. E.
Waterloo, Ont., Canada

Immobilization of enzymes by entrapment in various hydrogels: Glucose oxidase, β -Galactosidase, Urease, Invertase, and so forth. Exceptional stability, no leakage. Custom immobilization.

SCIENCE, VOL. 184

It's obvious that Zeiss Axiomats are revolutionary microscopes. But here are 9 more reasons why.

1. Symmetrical design for utmost stability. The optical axis runs right through the center.

2. Truly modular system. The rugged modules can be stacked for upright or inverted microscopy. Some are simply turned upside down for inverted use (as a **metallograph**, for instance). And they remain always perfectly aligned. (Only a century-old tradition in precision-engineering can meet the close tolerances for such exact alignment.)

3. The widest image field through newly computed flat-field optics with unequaled resolution and contrast edge to edge. The first complete line of strain-free Planapochromats for all microscope techniques in transmitted and reflected light. Built-in zoom system of unusually large range (1:4) and of superb image quality.

4. Two fully integrated, fully automatic camera systems (4 x 5" and 35mm) in one module, with additional ports for TV or motion picture cameras.

5. UV-Axiomats for UV-microscopy, photomicrography,

and photometry with unique, new ULTRAFLUARS covering the range from 230-750 nm.

6. The most stable, most convenient and compact photometer system ever made. You can always observe the measured detail in the total field. One module contains both the photometer and a 35mm camera system.

7. The largest (8 x 17"), most stable and best aligned stages available . . . including the largest scanning stages.

8. Three illuminators in one housing . . . all pre-centerable from the outside.

9. Remote control of focusing and stage movements . . . stage and objective modules can be placed in a sterilized chamber. They become their own "Clean room".

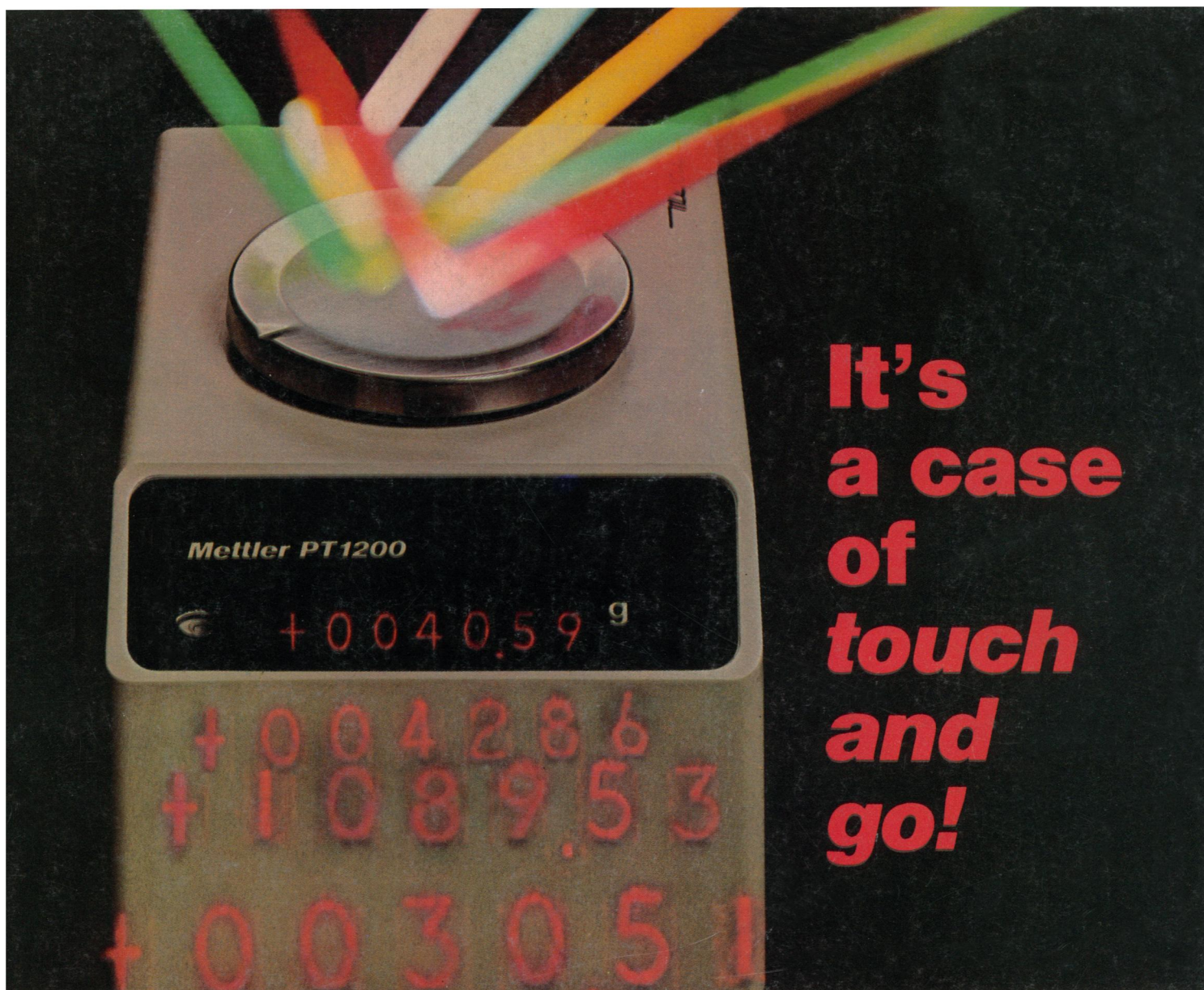
For the whole supporting story, write Carl Zeiss, Inc., 444 5th Ave., N.Y., N.Y. 10018. Or phone (212) 736-6070.

In Canada: 45 Valleybrook Drive, Don Mills, Ont., M3B 2S6. Or phone (416) 449-4660.

Nationwide Service

BRANCH OFFICES: BOSTON, CHICAGO, COLUMBUS, HOUSTON, LOS ANGELES, SAN FRANCISCO, WASHINGTON, D. C.





**It's
a case
of
touch
and
go!**

At last a balance with just a pan and a result. No Knobs. No adjustments. No beam. Weighing has never been simpler.

Or faster.

Two balances, to be precise. Electronic top loaders. Both new. Both from Mettler. The PT1200 and the PS1200. And with each, a single control bar performs all balance



operating functions—on/off, zero set, and tare—all-in-one. There are no other controls or knobs to be used—ever.

Now you can place your sample on the weighing pan and read the result. In less than two seconds. In large, lighted, easy-to-read numerals. Without adjustments. Without approximations. Weighing is faster, simpler, more productive.

TOUCH CONTROL. With a touch of the control bar you turn the balance on or off, reset the readout to zero, tare the weight of a container, or weigh in any number of ingredients. The automatic tare, with built-in memory, accumulates individual weight values—and the total weight of all added materials can be read on the digital readout. Batching, checkweighing, counting small pieces, and weighing objects below the balance are simple. And fast.

DIGITAL OUTPUTS. You need never pick up a pencil again. Both balances are equipped with BCD digital outputs, facilitating data transfer for automatic computer processing. You can also connect printing devices, tape punch, desk-top calculators, weight-count converters, and remote readouts. If the balance is overloaded, there is no readout, and data transfer is blocked.

Both the PT1200 and PS1200 have a weighing range of 1200 g—with readability of 0.01 g for the PT1200, and 0.1 g for the PS1200.

Rarely does an instrument as revolutionary as the Mettler PT1200 or PS1200 happen. Circle the number for complete details and specifications. Or write Mettler Instrument Corporation, Box 100, Princeton, N.J. 08540.

Mettler
always gives you
so much more.

