

## BOOKS RECEIVED

(Continued from page 978)

**General Chemistry.** Interaction of Matter, Energy, and Man. Frederick R. Longo. McGraw-Hill, New York, 1974. xxii, 766 pp., illus. \$13.95.

**The Greatest Adventure.** Basic Research That Shapes Our Lives. Eugene H. Kone and Helene J. Jordan, Eds. Rockefeller University Press, New York, 1974. x, 294 pp., illus. \$9.80.

**The Human Body.** Its Structure and Physiology. Sigmund Grollman. Macmillan, New York, and Collier Macmillan, London, ed. 3, 1974. x, 612 pp., illus. \$10.95.

**Humoral Control of Growth and Differentiation.** Vol. 1, Vertebrate Regulatory Factors. Joseph Lobue and Albert S. Gordon, Eds. Academic Press, New York, 1973. xvi, 412 pp., illus. \$17.50.

**Immunology.** An Introduction to Molecular and Cellular Principles of the Immune Responses. Herman N. Eisen. Harper and Row, New York, 1974. x, 272 pp., illus. + index. Paper, \$10. Reprinted from *Microbiology*, ed. 2 (1974).

**Industrial Uses of Cereals.** Proceedings of a symposium, St. Louis, Mo., Nov. 1973. Y. Pomeranz, Chairman. American Association of Cereal Chemists, St. Paul, Minn., 1973. xii, 496 pp., illus. Paper, \$18.

**An Introduction to Human Physiology.** D. F. Horrobin. Davis, Philadelphia, 1973. viii, 176 pp., illus. Paper \$7.50.

**A Laboratory Manual of Mammalian Anatomy and Physiology.** Sigmund Grollman. Macmillan, New York, and Collier Macmillan, London, ed. 2, 1974. xvi, 266 pp., illus. Paper, \$5.50.

**North Sea Oil and Gas.** Implications for Future United States Development. Irvin L. White, Don E. Kash, Michael A. Chartock, Michael D. Devine, and R. Leon Leonard. University of Oklahoma Press, Norman, 1973. xiv, 176 pp., illus. Paper, \$2.95.

**Nutritional Problems in a Changing World.** Proceedings of a conference, Cambridge, England, Mar. 1973. Dorothy Hollingsworth and Margaret Russell, Eds. Halsted (Wiley), New York, 1973. xvi, 310 pp., illus. \$32.50.

**Opiate Addiction.** Origins and Treatment. Proceedings of a meeting of the American College of Neuropsychopharmacology, Dec. 1972. Seymour Fisher and Alfred M. Freedman, Eds. Winston, Washington, D.C., 1974 (distributor, Halsted [Wiley], New York). xvi, 248 pp., illus. \$11.95. The Series in General Psychiatry.

**Organic Chemistry Experiments.** Fundamentals of Organic Chemistry. Robert C. Belloli, John C. Shelton, Richard S. Monson, and Richard E. Bozak. McGraw-Hill, New York, 1973. viii, 92 pp., illus. Paper, \$4.95.

**Our World Tomorrow.** Jane Werner Watson. Illustrated by David Klein. Golden (Western), New York, 1974. 140 pp., illus. \$5.95.

**Paraná.** Social Boundaries in an Argentine City. Ruben E. Reina. Published for the Institute of Latin American Studies by the University of Texas Press, Austin, 1974. xxiv, 390 pp., illus. + plates. \$10. Latin American Monographs, No. 31.

**Partially Ordered Topological Vector Spaces.** Yau-Chuen Wong and Kung-Fu Ng. Clarendon (Oxford University Press), New York, 1973. xii, 218 pp. \$22.50.

**Plate Tectonics.** Xavier Le Pichon, Jean Francheteau, and Jean Bonnin. Elsevier, New York, 1973. xiv, 300 pp., illus. \$16. Developments in Geotectonics, vol. 6.

**Politics and Poverty.** Modernization and Response in Five Poor Neighborhoods. Stanley B. Greenberg. Wiley-Interscience, New York, 1974. xx, 282 pp., illus. \$12.95. Wiley Series in Urban Research.

**Preventive Medicine and Public Health.** Philip E. Sartwell, Ed. Appleton-Century-Crofts, New York, ed. 10, 1974. xvi, 1190 pp., illus. \$38.50.

**The Primary Structure of Transfer RNA.** T. V. Venkster. Translated from the Russian edition (Moscow, 1970) by Basil Haigh. Plenum, New York, 1973. x, 296 pp., illus. \$25.

**Primate Locomotion.** Farish A. Jenkins, Jr., Ed. Academic Press, New York, 1974. xii, 390 pp., illus. \$34.

**The Principles of Inductive Logic.** John Venn. Chelsea, New York, 1973. xx, 604 pp. \$15. Reprint of the 1907 edition of *The Principles of Empirical or Inductive Logic*.

**Report of the Committee on Solar Energy Research in Australia.** Australian Academy of Science, Sydney, 1973. 63 pp., illus. Paper, \$1. Reports of the Australian Academy of Science, No. 17.

**Ring Theory.** Proceedings of a conference, Norman, Okla., Mar. 1973. Bernard R. McDonald, Andy R. Magid, and Kirby C. Smith, Eds. Dekker, New York, 1974. xx, 296 pp. Paper, \$7.75. Lecture Notes in Pure and Applied Mathematics, vol. 7.

**2nd International Symposium on Polymer Characterization.** Proceedings of a symposium, Seattle, Wash., Aug. 1972. F. A. Sliemers and K. A. Boni, Eds. Interscience (Wiley), New York, 1973. vi, 348 pp., illus. \$14.95. *Journal of Polymer Science*. Polymer Symposia, No. 43.

**Sexual Identity.** Sex Roles and Social Change. Betty Yorburg. Wiley-Interscience, New York, 1974. xii, 228 pp. \$9.95.

**Shedding of Plant Parts.** T. T. Kozlowski, Ed. Academic Press, New York, 1973. xii, 560 pp., illus. \$35. *Physiological Ecology Series*.

**Signal Processing.** Proceedings of a NATO institute, Loughborough, England, Aug. 1972. J. W. R. Griffiths, P. L. Stocklin, and C. Van Schooneveld, Eds. Academic Press, New York, 1973. xiv, 776 pp., illus. \$42.

**Soil Organic Matter and Its Role in Crop Production.** F. E. Allison, Elsevier, New York, 1973. viii, 638 pp., illus. \$52. Developments in Soil Science, vol. 3.

**Solo.** The Story of an African Wild Dog. Hugo Van Lawick. Drawings by David Bygott. Houghton Mifflin, Boston, 1974. 160 pp., illus. + plates. \$6.95.

**The Trace Elements and Man.** Some Positive and Negative Aspects. Henry A. Schoeder. Devin-Adair, Old Greenwich, Conn., 1973. xii, 180 pp., illus. \$7.95.

**Ultrastructure of the Mammalian Heart.** C. E. Challice and S. Viragh, Eds. Academic Press, New York, 1973. xiv, 192 pp., illus. \$17.50. *Ultrastructure in Biological Systems*, vol. 6.

## Personnel Placement

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### POSITIONS WANTED

**Analytical-Physical Chemist.** Ph.D. 1971 in NMR, two postdocs in GLC and HPLC; 19 publications in NMR, GLC, HPLC, drug SAR, Factor Analysis, seeks industrial, government, or teaching position, no geographical preference. P. H. Weiner, Chemistry Department, Northeastern University, Boston, Mass. 02115. X

**Biochemical Pharmacologist.** Ph.D. 1972. Two years of postdoctoral studies in muscle membrane biology. Seeks academic or industrial position. Box 263, SCIENCE. X

**Biochemist.** Ph.D. 1974, female. Research experience in nuclear protein synthesis. Also interested in marine biochemistry. Postdoctoral or academic position desired. United States or Canada. Box 264, SCIENCE. X

**Biochemist.** M.S. Three years' experience. Publications. Background in electronics. Desires academic or industrial research placement, preferably in the Northwest. Available in September. Robert Seely, 1600 Wabash, Denver, Colorado 80220. 6/7

**Biochemist.** Ph.D. Several cyclic nucleotides research publications. Additional courses taken include immunology, microbiology, clinical biochemistry, anatomy, physiology, and pharmacology. Seeking appropriate industrial, teaching, or research position. 210 North Avenue, NW, Apartment 83, Atlanta, Georgia. X

**Biologist/Botanist.** Ph.D. 1972. Plant morphogenesis, physiology, tissue culture. Postdoctoral teaching/research experience. Publications. Seeks position in college, university, industry. Minority. Box 266, SCIENCE. X

**Biologist, Photographer, Pilot.** B.S. 1974. Desires employment in the field of marine biology, ecology, or microbiology. Robert Walker, FIT Box 5995, Melbourne, Florida 32901. X

**Biologist: Water Pollution.** Three years of industrial laboratory and field experience bioassay, environmental impact, treatability, pollution abatement studies. Ph.D. 1961 (plant science). Seeks academic, government, industry, consulting group position. Box 265, SCIENCE. X

**Biophysicist/Bioengineer.** Ph.D. 1974. Training in biocompatible implant materials, biochemical-specific electrodes, interfacial phenomena. Publications. Desires teaching/research position. Box 267, SCIENCE. X

**Chemist.** Wife (Ph.D., 1973, organic-biological chemistry). Husband (Ph.D., 1971, physical chemistry, kinetics). Desires teaching or research positions. Research publications, teaching experience. Will share appointment. Box 257, SCIENCE. 5/31; 6/28

## POSITIONS WANTED

**Curator, Chemistry.** Central stores manager of midwestern university for 2 years. Responsible for purchasing chemicals, supplies, and directing student workers. Looking for similar position in New England area. Box 268, SCIENCE. X

**Electron Microscopist.** Ph.D. 1962. Significant research, publications, tumorigenesis, hematology, virology, parasitology. Presently professor and director of EM laboratory. Seeks challenging position with opportunity for collaboration. Sanford Vernick, 40 Revere Road, Port Washington, N.Y. 11050. 6/7, 14, 21

**Fluid Dynamicist.** Ph.D., August 1974. Research experience in rotating flows, boundary layers and computational fluid dynamics. Job and teaching experience. Publications. Seeks challenging R & D position. Box 260, SCIENCE. 5/31

**Human Cytogeneticist.** Ph.D. Ten years' experience in clinical cytogenetics. Seeking position in charge of cytogenetics laboratory in medical center with opportunity to do research and teaching. Box 269, SCIENCE. X

**Immunologist.** Ph.D. 1970. Postdoctoral experience lymphoid cell culture, tumor immunology, immunotherapy. Publications. Desires academic or industrial research. Box 270, SCIENCE. X

**Mycotoxicologist.** Ph.D. in plant pathology with a good background in biochemistry. Experience in identification of mycotoxins. Two years postdoctorate and many publications. Desires teaching and/or research position. Box 271, SCIENCE. X

**Nutritionist-Biochemist-Physiologist.** Ph.D. 1969. Experience in teaching human biology and nutrition. Research in lipid, protein and nonprotein nitrogen metabolism. Postdoctoral (biochemistry) research in an adenylate cyclase system. Sixteen publications. Seeks research or research/teaching position. Box 272, SCIENCE. 6/7

**Recent Ph.D.** with interdisciplinary background (physiology, electrical engineering) desires teaching or teaching/research position in predominantly undergraduate institution. Box 278, 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. X

## POSITIONS OPEN

### ASSISTANT ASSOCIATE PROFESSORS OF ANATOMY

Available 1 August 1974 to teach gross anatomy/histology with research interest in neurobiology or cell biology. Send curriculum vitae, list of publications, and names of references to: **Dr. Harold Brody, Chairman, Department of Anatomical Sciences, State University of New York at Buffalo, Buffalo, New York 14214.**

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### ASSISTANT PROFESSOR OF ANATOMY

Ph.D. needed to teach undergraduate, graduate, and medical school levels with primary responsibility and specialization in Medical Gross Anatomy and Embryology. Independent research encouraged. Must be available by 20 August 1974. If interested, send curriculum vitae, research interests, list of publications, and names of at least three references before 15 June 1974 to: **Chairman, Search Committee, Anatomy Department, The University of South Dakota, Vermillion, South Dakota 57069.**

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### ASSISTANT PROFESSORSHIP—BIOCHEMISTRY

With research experience in EPR and NMR spectrometry of biological macromolecules, September 1974. Postdoctoral experience required. Successful applicant will establish a research program involving magnetic resonance and will teach undergraduate and graduate courses in chemistry and biochemistry. Interested candidates should send a curriculum vitae and have three letters of recommendation sent to **Professor K. T. Potts, Chairman, Department of Chemistry, Rensselaer Polytechnic Institute, Troy, New York 12181.** *An equal opportunity employer.*

### ASSISTANT PROFESSOR/LECTURER

Two temporary 9-month positions, approximately \$12,500 per year, to teach undergraduate systemic mammalian physiology during 1974-1975 academic year. Emphasis on neural or renal physiology desirable. Send curriculum vitae, two or three reprints, three names of persons for letters of recommendation, and letter stating research and teaching interests to: **Search Committee, Department of Animal Physiology, University of California, Davis, Calif. 95616.** *An Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### McGILL UNIVERSITY Montreal, Quebec, Canada

Applications are invited for a 2-year appointment at the Assistant or Associate Professor level for a **BIOLOGIST-PHYSIOLOGIST** with strong **BIO-MATHEMATICAL** interests in the Department of Physiology starting 1 September 1974. The department hopes to be able to extend the appointment. Responsibilities include teaching undergraduate- and graduate-level science courses. Send applications with curriculum vitae and names of three references to:

**Ms. Maria Olejar  
Department of Physiology  
3655 Drummond Street  
McGill University  
Montreal, P.Q., H3G 1Y6, Canada**

### ASSISTANT PROFESSOR OF ECOLOGY

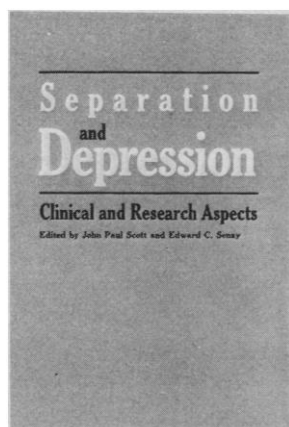
The University of Texas School of Public Health is seeking an ecologist for an Assistant Professor position. The individual should have a systems approach and be interested in a teaching-research program in areas of concern to human health and welfare. Interested candidates should send a curriculum vitae and a résumé of their research and teaching interests to: **The Dean, School of Public Health, The University of Texas Health Science Center at Houston, P.O. Box 20186, Astrodome Station, Houston, Texas 77025.**

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For full-time tenure-earning position with primary teaching duties in **Neuroanatomy** to advanced undergraduate students in a program in medical sciences, psychology, and biology graduate students. Candidate should feel comfortable teaching in an academic psychology department and engaging in an independent research program in neuroanatomy at the gross and histological levels, preferably on questions with direct behavioral implications. Salary commensurate with experience. *EOE employer.* Send curriculum vitae, but not letters of recommendation, to:

**Bruce Masterton, Chairman  
Neuroanatomy Search Committee  
Department of Psychology  
Florida State University  
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Candidates should have sound biophysical training especially in transport phenomena. Position involves participation in our teaching program and an opportunity for independent research. Reply to: **A. B. Otis, Chairman, Department of Physiology, Box 735 J, Hillis Miller Health Center, University of Florida College of Medicine, Gainesville, Florida 32610.**

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### ASSISTANT PROFESSOR OF SURGERY

Applications are being sought for the position of Assistant Professor of Surgery in the Department of Surgery of the University of Southern California School of Medicine. The position is that of Head Physician of Pediatric Surgery at the Los Angeles County-USC Medical Center. The appointment to be effective the summer of 1974. Please send inquiries and curriculum to:

**Leonard Rosoff, M.D.,  
Chairman, Department of Surgery  
University of Southern California  
School of Medicine  
1200 North State Street  
Los Angeles, California 90033**

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### ASSISTANT PROFESSOR

Department of Environmental Health will have an Assistant Professorship in **Toxicology** available in July 1975. The responsibility is primarily research in the area of toxicology, with emphasis on environmental agents as distinguished from drugs. Modest teaching responsibility in the graduate training program in toxicology included. Candidate should have Ph.D. degree in toxicology and at least 1 year of postdoctoral experience.

Send curriculum vitae, reprints and names of three references to: **Dr. P. B. Hammond, Department of Environmental Health, University of Cincinnati Medical Center, 3223 Eden Avenue, Cincinnati, Ohio 45219.**

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## BIOCHEMICAL PHARMACOLOGIST

Syntex is an international research and life sciences company located in Palo Alto, California, adjacent to Stanford University. Expanding research programs have created an opening in the Department of Experimental Pharmacology for a Biochemical Pharmacologist.

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# SYNTEX

## POSITIONS OPEN

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Send curriculum vitae and three letters of reference to: **Chairman, Department of Biochemistry, College of Medicine, University of Kentucky, Lexington, Kentucky 40506.**

### ASSISTANT RESEARCH GENETICIST

Position available in the Department of Reproduction/Serology Laboratory, University of California School of Veterinary Medicine. Candidates must possess a Ph.D. degree in genetics, be eligible for academic appointment, and have a working knowledge of blood groups and their applications in domestic animals. Send résumé to: **C. Stormont, Director, Serology Laboratory, University of California, Davis, California 95616.**

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### BIOCHEMISTRY POSTDOCTORAL POSITION

Research into membrane hormone receptors and cyclic nucleotide metabolism. Background in membrane biochemistry and protein isolation preferred. Position available immediately. Apply to: **Dr. M. Blecher, Department of Biochemistry, School of Medicine, Georgetown University, Washington, D.C. 20007.**

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### BIOLOGIST, Ph.D., ASSISTANT PROFESSORSHIP

Competency in one or more of the following: cell biology, physiology, or molecular biology. Teaching at undergraduate and graduate levels. Research encouraged. Reply to:

**Search Committee  
Department of Biology  
State University of New York  
College at Fredonia, N.Y. 14063**  
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### CHAIR OF ANATOMY

Medical college and large teaching hospital in major medical center is considering applications for the chair of anatomy. *Rush-Presbyterian-St. Luke's Medical Center is an equal opportunity/affirmative action employer.* For further information please contact **Dr. J. Francis Hartmann, Chairman of the Anatomy Search Committee, Rush-Presbyterian-St. Luke's Medical Center, c/o Department of Neurology, 1753 West Congress Parkway, Chicago, Illinois 60612.**

### CHAIRPERSON—DEPARTMENT OF BIOPHYSICS

Applications and nominations are sought for the position of Chairperson, Department of Biophysics, Virginia Commonwealth University. Qualifications include evidence of research, teaching, and administrative capabilities. Letters of inquiry, applications and nominations should be directed to **Dr. S. G. Bradley, Department of Microbiology, Virginia Commonwealth University, MCV Station, P.O. Box 847, Richmond, Virginia 23298.** Applications should be accompanied by a curriculum vitae and by the names of at least three persons from whom letters of reference can be obtained.

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### 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.

### FACULTY OPENINGS

Positions available as chief, chest section; hepatologist staff physician in gastroenterology section; staff physician, cardiology section; and staff physician, intermediate care section, Wadsworth Hospital Center, Veterans Administration. Appropriate faculty appointments would be available at the UCLA School of Medicine. *Both institutions are equal opportunity, affirmative action employers.* Excellent training programs, research facilities. Write: **Sydney M. Finegold, M.D., Acting Chief, Medical Service, Wadsworth Hospital Center, Veterans Administration, Los Angeles, Calif. 90073.**

## POSITIONS OPEN

### CHAIRMAN, DIVISION OF TUMOR IMMUNOLOGY ST. JUDE CHILDREN'S RESEARCH HOSPITAL

St. Jude Children's Research Hospital is seeking a distinguished scientist to organize and chair a division of tumor immunology. Applications are invited from persons with demonstrated expertise in basic immunology. Letters of application, with curriculum vitae, should be sent to

**Dr. R. G. Webster  
Chairman, Search Committee  
St. Jude Children's Research Hospital  
P.O. Box 318  
Memphis, Tenn. 38101**  
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### CHAIRPERSON, DEPARTMENT OF NEUROBIOLOGY

Stanford University of Medicine has recently established a Department of Neurobiology and has initiated a search for a chairperson of this department. This individual would have the opportunity to develop a basic science department dealing with various aspects of the biology of the nervous system at a cellular level including those relating to morphology, cell physiology and biochemistry. It is expected that the new department will serve as a focus for research programs in neurobiology and be involved in training at undergraduate and graduate levels. Candidates for this position should write to **Chairman, Neurobiology Search Committee, Room C338, Stanford University School of Medicine, Stanford, Calif. 94305.** *Stanford University has a faculty affirmative action program.*

## Core Curator

Complete curating responsibility for an extensive collection of deep-sea sediment cores. Supervise processing and cataloguing, edit core descriptions, staff and train geologists for research vessels, supervise distribution of core and dredge samples, be responsible for supplying ships with coring equipment, upgrade computer handling of data, supervise nine to ten people.

B.S. (or M.S.) in Geology. Supervisory ability. Prefer related experience at an oceanographic institute.

Please send résumés to:

**Dr. James D. Hays  
Lamont-Doherty Geological  
Observatory  
Palisades, New York 10964**

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### DEAN COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS THE UNIVERSITY OF MICHIGAN

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Applications and nominations should be directed in writing, by 1 June, to:

**Professor Arthur Burks  
Search Chairman  
Computer and Communication Sciences  
2081 Frieze Building  
The University of Michigan  
Ann Arbor, Michigan 48104**

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## POSITIONS OPEN

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### FACULTY POSITION

It is anticipated that a faculty position will become available 1 July 1974. Applicants must be experienced teachers of gross anatomy and have an active research program in progress.

Send curriculum vitae and the names of three referees to: **Chairman, Department of Human Anatomy, School of Medicine, University of California, Davis, California 95616.**

### FACULTY POSITION IN PHYSIOLOGY

Medical school teaching experience in cardiovascular, respiratory, and kidney physiology required. Responsibilities include coordination of medical physiology course for first-year students and participation in graduate school program. Interested individuals should promptly forward a complete résumé and have four letters of recommendation forwarded to: **Dr. Alvin S. Levine, Director, Indiana University School of Medicine, Terre Haute Center for Medical Education at Indiana State University, Terre Haute, Ind. 47809.** *Indiana University is an equal opportunity/affirmative action employer.*

### HUMAN GENETICS

Salary and rank open. Postdoctoral experience desirable. Applicants must be interested in teaching human genetics and participating in a genetics clinic. Active research commitment required, preferably in somatic cell genetics and/or immunogenetics. *Michigan State University is an Equal Opportunity Employer.*

**Director, Genetics Program  
34 Plant Biology  
Michigan State University  
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**DEPARTMENT OF PHYSICS** (Two posts)

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Further particulars and application forms are obtainable from the Association of Commonwealth Universities Appts, 36 Gordon Square, London WC1H 0PF.

The closing date for the receipt of application is 21 June 1974.

## University of New Brunswick Fredericton, New Brunswick Canada

Applications are invited for the following positions:

1. Assistant Professor with Ph.D. in Microbiology to teach undergraduate courses in Microbial Infection and Immunity (two-term course) and Applied Microbiology (one-term course). This position is renewable.
2. Assistant Professor with Ph.D. in Zoology to teach an undergraduate course in Experimental and Laboratory Techniques and assist in some other area of the candidate's own specialty. This position is renewable.
3. Assistant Professor with Ph.D. in Genetics to teach a one-term undergraduate course in Introductory Genetics and a one-term course in Cytogenetics. This position is for one year only, replacing a faculty member on sabbatical leave.
4. Assistant Professor with Ph.D. in Animal Physiology to teach a two-term undergraduate course in Comparative Animal Physiology and a one-term undergraduate course in Endocrinology. This position is for one year only, replacing a faculty member on sabbatical leave.
5. Assistant Professor with Ph.D. in Plant Pathology to assist in courses dealing with plant pathogens and to assist in General Biology (Botany). This position is for two years only, replacing a faculty member on leave of absence.
6. Three Instructors to assume major responsibility for laboratory instruction in one of the following areas: (i) General Biology; (ii) General Microbiology; (iii) Experimental and Laboratory Techniques.

Salaries for the above positions will be commensurate with qualifications and experience but appointments will probably be made at, or near, the floor of the ranks advertised: Assistant Professor, \$12,500 per annum; Instructors, \$8,000 per annum. Applications should be received by 30 June 1974. Appointments effective 1 September 1974 or earlier if possible.

Applications, including curriculum vitae and names of three referees should be sent to: **Dr. M. D. B. Burt, Chairman, Department of Biology, University of New Brunswick, Fredericton, New Brunswick, Canada.**



## Technische Hogeschool Delft

### THE DELFT UNIVERSITY OF TECHNOLOGY CHAIR IN BIOLOGY

Applications are invited for a vacant chair in biology in the Department of Chemistry and Chemical Engineering. Appointee will be trusted with the following duties:

**Teaching:** The organization of an introductory course in biology for all students of the department and a course in computer simulation of biological systems.

**Research:** The initiation and direction of research devoted to one or both of the following themes:

- 1) Energy balances in biological systems
- 2) Mixed cultures of two or more organisms

Applicant should have experience in the formulation and experimental verification of quantitative models of biological systems. He should be willing to cooperate with biological and technological research groups in the department. Applications, including biography, giving full details of qualification, experience, publications, and names of two referees should be addressed to:

**Prof. L. L. van Reijen**  
c/o Bureau van de Afdeling der Scheikundige Technologie  
136 Julianalaan  
Delft-2208, The Netherlands



## University of Utrecht

At the Department of Physics and Astronomy a position is vacant for a

### FULL PROFESSOR OF TECHNICAL PHYSICS

how will undertake **research** and **education** in fields related to the **energy problem**, including its **environmental aspects**.

Applicants should have conducted research of outstanding quality in physics or an allied discipline and should have shown actual interest, and preferably have participated in the above fields. Industrial or comparable experience would be an advantage. Candidates should be interested in interdisciplinary studies and have a capacity for and preferably experience with teaching. Knowledge of the Dutch language is not a prerequisite.

Resources are available to develop an adequate research program to be carried out by Ph.D. candidates.

Details of the salary, of the conditions of service, and of the method of application may be obtained by writing to **Professor C. Th. J. Alkemade, Physical Laboratory, Sorbonnelaan 4, University, Utrecht, The Netherlands. (Tel. No. 030-533302).**

## POSITIONS OPEN

### GENETICIST/TREE BREEDER

Energetic, self-starting plant geneticist (Ph.D. or near) required to develop innovative, practical tree-breeding and urban forestry research program. Demonstrated interest in cytogenetics an advantage; starting 1 July; no teaching required but will participate in the scientific development at a new arm of the New York Botanical Garden. Complete curriculum vitae, reprints of publications, salary history and requirements, and three letters of reference should reach the **Scientific Research Committee, The Cary Arboretum of the New York Botanical Garden, Box AB, Millbrook, N.Y. 12545.**

### IMMUNOLOGIST

Doctoral degree or equivalent, to direct operations of large, well-established histocompatibility testing laboratory serving midwestern metropolitan area. Laboratory experience and major interest in histocompatibility highly desirable, but not essential. Ample teaching and research opportunities. Will consider foreign applicants if well qualified. Salary negotiable, depending on training and experience. Send curriculum vitae and summary of research interests to **Box 276, SCIENCE.**

### INSTRUCTOR OF PATHOLOGY

Temple University. Training in pathologic anatomy and clinical pathology must be completed. Training must be in an academic institution with extensive experience in teaching medical students and residents. Must coordinate pathologic anatomy and clinical pathology training. Candidate must be only interested in full-time academic career. Send curriculum vitae and four references with first reply to: **Chairman, Pathology Department, Temple Medical School, Philadelphia, Pa. 19140.**

### LIFE SCIENCES

Hazleton Laboratories, Inc., a leading contract research company specializing in the life sciences, is seeking accomplished scientists with the following qualifications:

### VIRAL ONCOLOGIST

Senior Scientist holding Ph.D. degree with five or more years of experience to head active, ongoing program in viral oncology. Desired candidate should have demonstrated active research experience in virus-tumor systems with specific emphasis on tissue culture, immunological, and biochemical techniques. Must be able to function effectively as head of research team conducting comprehensive study of tumor etiology.

### IMMUNOLOGIST

Senior Scientist holding Ph.D. degree with five or more years of experience to establish a program in tumor immunology and to participate in ongoing research projects. Direct experience in development and evaluation of immune mechanisms and studies of tumor antigens is required.

Opportunity exists to collaborate with excellent technical staff in modern research facilities located in a pleasant Northern Virginia location. We offer competitive salaries, complete benefit program, relocation, and opportunity for continued professional growth.

Please send résumé, including salary history, in complete confidence to **Mr. Michael J. Mackert, Personnel Manager, Hazleton Laboratories, Inc., 9200 Leesburg Turnpike, Vienna, Virginia 22180.**

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### HAZLETON LABORATORIES, INC.

### MEDICAL PHYSIOLOGIST—Ph.D.

To teach physiological aspects of nervous system functions to first-year medical students. Will be expected to present introductory material in mammalian physiology to include neurophysiology, bioelectricity, synaptic phenomena, spinal reflexes, neuromuscular control, and autonomic nervous system function. Will also be expected to participate in an integrated nervous system course (anatomy, physiology, pharmacology, and pathology). A knowledge of neuroanatomy (gross and micro) is desirable. Other aspects of physiology which can be supportive of activities required by this position are endocrinology and gastrointestinal physiology. Teaching experience desirable. Appointment will be made at the Assistant or Associate Professor level. Closing date for applications is 1 July. Send complete and recent résumé to **Doyle E. Anderegg, Head, Department of Biological Sciences, University of Idaho, Moscow, Idaho 83843.**

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## Research Statistician

This competition is open to both men and women  
Department of the Environment  
St. John's, Newfoundland

**Salary up to \$24,262**

**DUTIES:** The Newfoundland Biological Station requires a scientist to undertake research studies in statistical theory and methodology in response to problems arising in fisheries research; act as statistical consultant to scientific and professional staff; direct the operation of a computer terminal; develop specifications for statistical and mathematical computer programs; supervise the operation of a data processing unit.

**QUALIFICATIONS:** Include a Doctorate degree, or a lesser degree with related independent research experience equivalent to that required for a Doctorate degree, with specialization in an area related to the duties of the position. Knowledge of the English language is essential.

To ensure consideration, please forward "Application for Employment" (Form PSC-367-401) available at Post Offices, Canada Manpower Centres, detailed résumé before 28 JUNE 1974, quoting reference number 73-100-124-S and send it to:

**Sciences and Technology Program,  
Public Service Commission of Canada,  
Tower "A," Place de Ville,  
Ottawa, Ontario K1A 0M7**

Appointments as a result of this competition are subject to the provisions of the Public Service Employment Act.

## Office of Naval Research

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\$24,247 to \$36,000  
(GS 14 or 15)**

**Physicist (Announcement #74-21)**

Molecular physics, lasers, electrooptics.

**Physicist or Electrical Engineer**

**(Announcement #74-25)**

Electromagnetics (antennas and propagation), integrated optics, solid state electronics.

**Duties:** Formulate, initiate, develop and manage contract research programs in areas specified above.

Must have Ph.D. or equivalent, broad experience in physics or electrical engineering with expertise in the appropriate scientific disciplines specified above; scientific administrative ability and high stature in the scientific and technical community.

Applicants should forward SF 171 personal qualifications statement to:

**Director of Civilian Personnel,  
Code 720, 800 N. Quincy St.,  
Arlington, Va. 22217  
before 30 June 1974**

Specify announcement number of vacancy for which applying.

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## WORLD HEALTH ORGANIZATION

Applications are invited for the post of Scientist (Health Administration) in a project on research in comprehensive health planning in Cali, Colombia.

Candidates should have a medical degree with master's in health administration, or doctoral degree in health administration or related area; several years' experience in areas of organizational change, planning and decision-making, preferably having worked with health organizations in Latin America; an excellent knowledge of English or Spanish, with a working knowledge of another language.

Annual net salary: US\$16,542 to US\$21,294 plus various allowances.

Interested candidates having the requisite qualifications should write, as soon as possible, enclosing a detailed curriculum vitae and quoting reference "IR-0660-Health Administration" to:

**Office of Personnel  
World Health Organization  
1211 Geneva 27  
Switzerland**

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**SANDOZ RESEARCH INSTITUTE**  
in Vienna, Austria,

is one of three international research centers of the Swiss based Sandoz Inc. In the virology department of this institute a vacancy for

**A VIROLOGIST**

has arisen. The person we are seeking should preferably have a M.D. with specialization in animal or medical virology or a Ph.D. in **animal or medical virology**. Several years of postdoctoral experience is required, including the demonstration of a capability to conduct independent and original research. Special experience in the area of myxo and/or paramyxoviruses would be of advantage.

The successful candidate will join an active research group working on respiratory viruses. Although the work will lead to practical applications in the field of antiviral vaccines, emphasis is laid on basic research as well.

A knowledge of German is not a prerequisite, but would be advantageous.

Research facilities and working conditions are excellent. Salary will be negotiable, commensurate with experience and qualifications. Other benefits include a noncontributory pension scheme and full assistance toward removal and reestablishment costs.

Our location in Vienna offers unparalleled recreational and cultural opportunities.

Please send curriculum vitae, list of publications, and the names of two referees in confidence to:

**Dr. N. Zacherl**  
Personnel Manager  
**SANDOZ Forschungsinstitut Wien**  
Brunner Strasse 59  
A-1235 Vienna  
Austria

**THE UNIVERSITY OF CALGARY**

**THE FACULTY OF MEDICINE**

Applications and nominations are invited for the positions of *Professor and Head, Division of*

**MORPHOLOGICAL SCIENCE**

*and Professor and Head, Division of*

**PHARMACOLOGY & THERAPEUTICS**

The successful applicants will be expected to have an interest in undergraduate and graduate medical education and to be a well-established and active investigator.

The positions are to be filled Sept. 1/74 or as soon as possible. Salary will be according to qualification and experience.

Nominations and/or applications will be received by Dr. L. E. McLeod, Dean, Faculty of Medicine, The University of Calgary, Calgary, Alberta, T2N 1N4, Canada, until July 1, 1974. Applications are to be accompanied by a detailed curriculum vitae.



**POSITIONS OPEN**

**MYCOLOGIST**

Applications are invited for a position at the Assistant Professor level. Applicants with postdoctoral experience preferred. Responsibilities will consist of teaching medical mycology and applied microbiology to undergraduates and of developing graduate teaching and research programs in the appointee's area of specialization. Salary and benefits competitive, opportunity for personal development excellent. Send complete curriculum vitae, reprints of publications, and names of three referees to **Dr. C. P. Sword, Chairman, Life Sciences, Indiana State University, Terre Haute, Indiana 47809.**

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**NEUROPHARMACOLOGIST/TOXICOLOGIST**

On NIH grant. Approximately \$14,600 per year to study effects on parathion and other toxins on brain electrical activity, behavior, and neurochemistry in rats and monkeys. Send curriculum vitae, two or three reprints, three names of persons for letters of recommendation, and letter expressing research interests to: **Dr. D. E. Woolley, Department of Animal Physiology, University of California, Davis, Calif. 95616.**

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**ORAL PATHOLOGIST**

Assistant/Associate Professor position available for oral pathologist in multidisciplinary basic science department to assist in teaching general and oral pathology to undergraduate dental and dental hygiene students and participate in graduate student education. Applicants should have recognized dental degree with higher qualification in pathology and demonstrated interest in research. Research experience in areas of inflammation and immunity in relation to oral disease desirable. Salary and rank dependent on qualifications. Starting date by mutual agreement. Applications should contain curriculum vitae and names of two references. Applications and correspondence should be sent to **Dr. E. T. Pritchard, Oral Biology, Faculty of Dentistry, The University of Manitoba, Winnipeg, Manitoba, R3E 0W3, Canada.**

**PHARMACOLOGIST-PHYSIOLOGIST**

New Medical school seeks top-quality teacher and scholar to teach pharmacology and some physiology to first-year medical students in an integrated organ-system self-instructional program. Ph.D. or equivalent required. Medical school experience, postdoctoral training and teaching experience are highly desirable. Rank open. Send curriculum vitae and ask three referees to write on your behalf to: **Dr. John H. Caster, Coordinator-Academic Appointments, Box 5, School of Medicine, Southern Illinois University, Carbondale, Ill. 62901.**

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**PHARMACOLOGIST**

University of Illinois at the Medical Center, College of Pharmacy, Chicago, Ill. 60612. Assistant professor, 1 Sept. 1974. Send résumé and references to **P. S. Benoit.**

*Equal opportunity employer*

**POSTDOCTORAL RESEARCH ASSOCIATE**

Experimental physicist with interest in research and development of very intense ion sources. Experience in ion beam diagnostics and beam optics helpful. Send résumé and references to:

**Dr. Theodore Sluyters**  
Accelerator Department  
Brookhaven National Laboratory  
Upton, Long Island, N.Y. 11973

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**POSTDOCTORAL TRAINEESHIPS** available in cancer research: hormone-protein interaction; hormonal control in cell and organ culture; biochemical nature of membranes; steroid metabolism, enzymology. **RESEARCH ASSOCIATE POSITION** also available for individual with expertise in the aforementioned studies. Permanent residents only. Apply with curriculum vitae to **Dr. V. Hollander, Research Institute, Hospital for Joint Diseases, 1919 Madison Ave., New York, N.Y. 10035.** *An equal opportunity employer.*

SCIENCE, VOL. 184

## POSITIONS OPEN

### Ph.D./BIOCHEMIST

To study the structure and biosynthesis of collagen. Relevant experience and some tissue culture preferable. Salary and type of faculty appointment commensurate with background. Medical School in Southern California.

Box 277, SCIENCE

### POSTDOCTORAL RESEARCH POSITION

Two-year postdoctoral research position available immediately to study biochemical aspects of growth control in normal and leukemic lymphocytes. Experience in isolation and characterization of nuclear proteins or general training in biochemistry preferred.

Further inquiries and a curriculum vitae with the names of two references should be sent to: **Dr. William I. Waite, Service d'immunologie, Centre hospitalier de l'Université Laval, 2705, boulevard Laurier, Québec G1V 4G2, Canada.**

### UNIVERSITÄT ZU KÖLN, GERMANY INSTITUT FÜR GENETIK E. COLI GENETICIST PROTEIN CHEMIST

A postdoctoral research position for work in association with Prof. B. Müller-Hill (geneticist) and a position in association with Dr. K. Beyreuther (protein chemist) will be available immediately. The appointments will be for 2 to 3 years. The salary will be on the scale of about 27,000 DM per annum.

Applications with curriculum vitae and the names of two referees should be sent to **Prof. Müller-Hill or Dr. Beyreuther, Institut für Genetik der Universität zu Köln, D 5 Köln 41, Weyertal 121, West-Germany.**

### RESEARCH ASSOCIATES AT POSTDOCTORAL LEVEL

Two positions now available. Full-time research in biophysical and biochemical studies on axon membranes. Send curriculum vitae, transcript, and three references to

**David E. Goldman**  
Department of Physiology and Biophysics  
Medical College of Pennsylvania  
Philadelphia, Pa. 19129

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### SCIENTIFIC COORDINATOR, SYSTEMS ECOLOGY

Colorado State University. A senior scientist with Ph.D. and several years of experience in directing multidisciplinary programs is sought. Duties include: Coordinator of research programs within Natural Resource Ecology Laboratory and Principal Investigator of Grassland Biome Program. Candidate must be oriented toward systems analysis and will be expected to develop his own programs. The NREL has 13 scientists with a large support staff; academic affiliation is available; rank and salary, negotiable; position open immediately. Interested persons should apply to **Dr. A. T. Cringan, Chairman of Search Committee, Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, Colorado 80523.** Formal evaluation of applications starts on 1 July. *Colorado State University is an equal opportunity employer.*

### SCIENTIST

Broadly educated scientist/science educator with doctorate needed to teach in and direct a team taught, interdisciplinary science course and teach courses in his or her own area of specialty. Candidates from all areas of science will be considered, but evidence of innovative and creative teaching and/or research experiences must be presented. Appointment will start in September 1974 or January 1975. Rank and salary are negotiable. Send curriculum vitae and three letters of reference to: **Faculty Search Secretary, College of Arts, Sciences, and Letters, The University of Michigan-Dearborn, Dearborn, Michigan 48128.**

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### SENIOR NEUROSCIENTIST

The Department of Zoology of the University of Michigan wishes to appoint a senior level neuroscientist, beginning 1975-76. The appointment will be at professorial rank with teaching duties in the department. Research facilities will be in the Neurosciences Building, an interdepartmental unit currently housing members of several other departments. Applicants should send a curriculum vitae, publications list, and the names and addresses of five references, to: **Professor Stephen S. Easter, Jr., Department of Zoology, The University of Michigan, Ann Arbor, Mich. 48104.**

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### RESEARCH ASSOCIATE

Research Associate position available for individual (recent Ph.D.) with training in protein chemistry and enzymology and an interest in the role of cyclic nucleotides or proteases in regulation in bacteria. Send curriculum vitae and names of three references to:

**Dr. R. W. Bernlohr**  
Department of Microbiology  
The Pennsylvania State University  
University Park, Pennsylvania 16802

### SENIOR ECOLOGIST

Woodward-Envicon, Inc., is expanding its Ecology Department in Atlanta, Georgia. We have immediate need for an individual with a Ph.D. in either ecology/forestry/ or wildlife management. At least 5 years experience in environmental consulting work is required. Business knowledge and research experience in the Gulf Coast States is essential.

The candidate will be responsible for and should have experience in proposal preparation, project management, and Environmental Report writing. The senior ecologist will also support our business development team. Extensive travel will be required.

The successful candidate would be required to begin duties as soon as possible. Excellent benefit program is available. Location is in suburban Atlanta, Georgia. Please send résumé and salary requirements to:

**Dr. George H. Weissberg**  
Woodward-Envicon, Inc.  
Suite 106, 6095 Barfield Road, N.E.  
Atlanta, Georgia 30328

### SENIOR SCIENTIST

Senior scientist with research and administrative experience to direct research program in neuropharmacology and biochemistry in an established state psychiatric research center. Excellent laboratories and locations. Easy access to Baltimore and Washington. Reply to **P.O. Box 3235-46, Catonsville, Maryland 21228.**

### TUMOR IMMUNOLOGIST

Postdoctoral cell biologist or immunologist to work with group studying human tumor cells and associated immunological reactions. Salary approximately \$10,000 to \$14,000. Opportunity for relevant personal research. Apply to: **Dr. George E. Moore, Denver General Hospital, West Eighth Avenue and Cherokee, Denver, Colorado 80204.**

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### VERTEBRATE MORPHOLOGIST

A position as Vertebrate Morphologist (Ph.D.) is open in the Department of Zoology, College of Biological Sciences, The Ohio State University, beginning 1 October or 1 January 1974-75.

Teaching responsibilities involve an undergraduate nonmajors' course in human anatomy and/or a majors' course in functional or comparative vertebrate morphology. Research program and participation in graduate education expected. Nine-month appointment at rank of Assistant Professor. Salary range \$11,000 to \$14,000.

Curriculum vitae and three letters of reference should be submitted to: **Dr. Tony J. Peterle, Chairman, Department of Zoology, College of Biological Sciences, The Ohio State University, 1735 Neil Avenue, Columbus, Ohio 43210.**

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### FELLOWSHIPS

#### FELLOWSHIPS IN CARDIOVASCULAR PHYSIOLOGY/PHARMACOLOGY

Opening for three research fellowships after 1 July 1974 for young Ph.D./M.D. in basic hemodynamics related to hypertension, in pharmacology of angiotensin antagonists, and in pharmacology of drugs in atherosclerosis. Send résumé to

**Dr. Philip A. Khairallah**  
Scientific Director, Cardiovascular Program  
Cleveland Clinic  
Cleveland, Ohio 44106.

### POSTDOCTORAL FELLOW

Cell Biologist or Biochemist. Isolation of cells from tissues. Biochemical examinations of isolated cells. Available 1 July. Minorities and women are encouraged to apply. Send curriculum vitae and references to

**University of California**  
College of Medicine  
Irvine, California 92664

### AUSTRALIAN CANCER SOCIETY CANCER RESEARCH FELLOWSHIP

The Australian Cancer Society invites applications for the Postdoctoral Research Fellowship. The Australian Cancer Society has initiated a Research Fellowship Program. The fellowships are directed at the postdoctoral level and are intended to assist a research worker at this level to become established in Australia.

The fellowship is tenable in any approved institute in Australia and normally is for 1 year. A salary up to \$8500 per annum is payable together with \$1000 equipment grant and \$500 travel.

Closing date for applications is 1 August in the year of application.

Application forms and the conditions of the award may be obtained from: **The Executive Director, Australian Cancer Society, P.O. Box 25, Kogarah, N.S.W. 2217, Australia.**

### GRADUATE STUDY

#### GRADUATE RESEARCH ASSISTANTSHIP

Beginning 1 August 1974 for graduate study leading to the Ph.D. in entomology or animal physiology. Research with an interdisciplinary team will deal with the behavior of the tarnished plant bug in response to volatiles of cotton and electrophysiological determination of chemoreceptor input controlling this behavior. Send curriculum vitae and three letters of recommendation by 1 July 1974 to: **Dr. James L. Frazier, Department of Entomology, Mississippi State University, Mississippi State, Mississippi 39762.**

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### SUMMER STUDY

#### ORANGE COUNTY COMMUNITY COLLEGE MIDDLETOWN, NEW YORK

"Introduction to Techniques in  
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Intensive seminar on tissue preparation, ultra-thin sectioning, heavy metal staining, knife making, transmission electron microscope use, and darkroom procedures. Registration limited to 14. Consultants on hand for special problems. Tuition: \$100 for New York State residents; \$200 for non-New York residents. Write **Instructor Helen Sherman, Orange County Community College, Middletown, N.Y. 10940.**

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