

Scientific Information. John Gray and Brian Perry. Oxford University Press, New York, 1975. viii, 62 pp. \$9. Science and Engineering Policy Series.

Selected Methods in the Determination of First Row Transition Metals in Natural Fresh Water. Richard G. Whitney and Terence H. Risby. Pennsylvania State University Press, University Park, 1975. xii, 94 pp., illus. Paper, \$3.50. The Pennsylvania State University Studies No. 38.

Sex and Birth Control. A Guide for the Young. E. James Lieberman and Ellen Peck. Schocken, New York, 1975. xviii, 300 pp. Paper, \$1.95. Reprint of the 1973 edition.

Simplified Engineering for Architects and Builders. Harry Parker. Revised by Harold D.

Hauf. Wiley-Interscience, New York, ed. 5, 1975. xx, 412 pp., illus. \$14.95.

Soil Biochemistry. Vols. 3 and 4. E. A. Paul and A. Douglas McLaren, Eds. Dekker, New York, 1975. Vol. 3, xvi, 334 pp., illus., \$27.50; vol. 4, xiv, 278 pp., illus., \$23.75. Books in Soils and the Environment.

Solar and Terrestrial Radiation. Methods and Measurements. Kinsell L. Coulson. Academic Press, New York, 1975. xii, 322 pp., illus. \$27.

Sozialpolymorphismus bei Insekten. Probleme der Kastenbildung im Tierreich. Gerhard H. Schmidt, Ed. Wissenschaftliche Verlagsgesellschaft, Stuttgart, Germany, 1974. xxiv, 974 pp., illus. DM 290. Bücher der Zeitschrift *Naturwissenschaftliche Rundschau*.

The Speed Culture. Amphetamine Use and

Abuse in America. Lester Grinspoon and Peter Hedblom. Harvard University Press, Cambridge, Mass., 1975. xii, 340 pp. \$15.

Stability of Reaction and Transport Processes. Morton M. Denn. Prentice-Hall, Englewood Cliffs, N.J., 1975. xii, 244 pp., illus. \$18.50.

Statistics and Econometrics. A Problem-Solving Text. Barry R. Chiswick and Stephen J. Chiswick. University Park Press, Baltimore, 1975. xiv, 262 pp., illus. Paper, \$10.75.

Student Evaluation of Instruction. Kenneth O. Doyle, Jr. Lexington Books (Heath), Lexington, Mass., 1975. xviii, 146 pp., illus. \$13.50.

Tables of Mellin Transforms. Fritz Oberhettinger. Springer-Verlag, New York, 1974. vi, 278 pp. Paper, \$14.

Techniques in Nuclear Structure Physics. J. B. A. England. Halsted (Wiley), New York, 1975. Two volumes, illus. xii + pp. 1-312, and xii + pp. 313-698. \$39.90.

Technique of Electroorganic Synthesis. Part 2. Norman L. Weinberg, Ed. Wiley-Interscience, New York, 1975. xiv, 1070 pp., illus. \$45. Techniques of Chemistry, vol. 5, part 2.

Theory and Practice in Behavior Therapy. Aubrey J. Yates. Wiley-Interscience, New York, 1975. xx, 244 pp., illus. \$15.95. Wiley Series on Personality Processes.

Theory of Waveguides. Techniques for the Solution of Waveguide Problems. L. Lewin. Halsted (Wiley), New York, 1975. xiv, 346 pp., illus. \$25.75.

Think Metric Now! A Step-by-Step Guide to Understanding and Applying the Metric System. Paul J. Hartsuch. Penguin, New York, 1975. viii, 120 pp., illus. Paper, \$1.25. Reprint of the 1974 edition.

Topics in Contemporary Mathematics. Jack R. Britton and Ignacio Bello. Harper and Row, New York, 1975. xvi, 488 pp., illus. \$13.95.

The Trail of the Hare. Life and Stress in an Arctic Community. Joel S. Savishinsky. Gordon and Breach, New York, 1974. xxx, 256 pp., illus. Cloth, \$14.95; paper, \$4.95. Library of Anthropology.

Ultrasonoscopic Differential Diagnosis in Obstetrics and Gynecology. R. O. Meudt and M. Hinselmann. Springer-Verlag, New York, 1975. x, 140 pp., illus. \$40.20.

Understanding Technology. Charles Susskind. Johns Hopkins University Press, Baltimore, 1975. xii, 164 pp. Paper, \$2.95. Reprint of the 1973 edition.

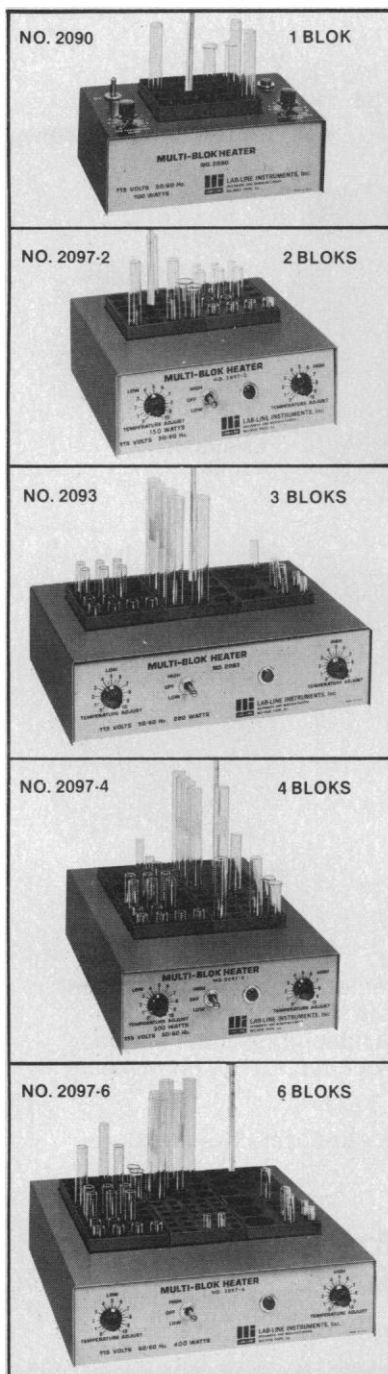
Vacuum Ultraviolet Radiation Physics. Proceedings of a conference, Hamburg, Germany, July 1974. Ernst-Eckhard Koch, Ruprecht Haensel, and Christof Kunz, Eds. Pergamon, Elmsford, N.Y., and Vieweg, Braunschweig, Germany, 1974. xvi, 832 pp., illus. \$60.

Varieties of Psychotherapeutic Experience. Multivariate Analyses of Patients' and Therapists' Reports. David E. Orlinsky and Kenneth I. Howard. Teachers' College Press, New York, 1975. xxiv, 284 pp. Cloth, \$15; paper, \$8.95. Foresight Books in Psychology.

Viruses and Immunity. Toward Understanding Viral Immunology and Immunopathology. Papers from seminars, Philadelphia, 1973. Claude Koprowski and Hilary Koprowski, Eds. Academic Press, New York, 1975. xvi, 142 pp., illus. \$8.95.

Water Pollution Control in Low Density Areas. Proceedings of a conference, Warren, Vt., Sept. 1973. William J. Jewell and Rita Swan, Eds. Published for the University of Vermont by the University Press of New England, Hanover, N.H., 1975. xx, 498 pp., illus. \$25.

Wilson and Wilson's Comprehensive Analytical Chemistry. Vol. 3. G. Svehla, Ed. Elsevier, New York, 1975. xvi, 400 pp., illus. \$51.95.



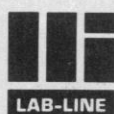
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Date of employment: 1 September 1975. Send résumé to **Dr. Robert H. Krupp, Dowling College, Oakdale, N.Y. 11769.**

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STATE GOVERNMENT OF NEW SOUTH WALES DEPARTMENT OF CULTURE, SPORT AND RECREATION AUSTRALIAN MUSEUM (SYDNEY, AUSTRALIA) DIRECTOR Position No. 290N

The Australian Museum at Sydney is maintained by the State Government of New South Wales for the purpose of collecting and preserving materials from the fields of natural history, particularly biology, anthropology and geology, and paleontology, and using these materials for display and educational purposes and research. Its role is to provide new knowledge through original research, and to disseminate information through publications and educational and exhibition programs. A Board of Trustees exercises general powers relating to the management of the Museum and its property.

Salary: A\$26,317 plus expenses allowance of A\$336 per annum.

Qualifications: Essential—Postgraduate degree plus administrative experience at an appropriate level. Desirable—Museum administration experience plus a good knowledge of curatorial duties including the display, housing, and custody of collections.

Duties: Responsible to the Board of Trustees for the organization and management of the Australian Museum including the coordination and control of research programs conducted by the Museum. The director will have opportunities to pursue active interest in research.

General: Subject to certain conditions, the successful applicant will be eligible for: (i) Payment of fares to Sydney, (ii) financial assistance toward cost of removal expenses and, (iii) financial assistance toward cost of initial accommodation expenses.

Applications close: **N.S.W. Public Service Board, Goodsell Building, 8-12 Chifley Square, Sydney, N.S.W., 2000, Australia, by 31 July.**

When applying applicants are requested to indicate the number of the position applied for and the title of the position.

FACULTY POSITION AVAILABLE. A faculty position is available at the Freshwater Biological Institute in the College of Biological Sciences of the University of Minnesota. Applicants should have a Ph.D. and several years of experience in field research in limnology and/or oceanography. They should be able to demonstrate through published research that they have made significant contributions to science. The appointee will be expected to play a prominent role in coordinating a field program in freshwater biology at the Freshwater Biological Institute. The academic appointment will be held in the Department of Ecology and Behavioral Biology and that department will have the responsibility for the assignment of teaching duties. Applications should be sent to **Dr. John M. Wood, Freshwater Biological Institute, P.O. Box 100, Navarre, Minnesota 55392. An Equal Employment Opportunity/Affirmative Action Employer.**

M.S. OR Ph.D. IN HUMAN GENETICS for cytogenetics laboratory in the division of hematology at a community teaching hospital. Laboratory concerned with clinical cytogenetics especially bone marrows but lymphocytes, fibroblasts and amniotic fluids also cultured. All banding techniques utilized. Position would include lab bench work and supervision of three technicians. Qualifications should include Ph.D. in Human Genetics with experience in tissue culture and banding techniques. Salary approximately \$15,000, but can be adjusted under exceptional circumstances. Support from National Cancer Institute contract. Please send résumé in confidence to: **Ms. Marie Smulski, Personnel Department, Jewish Hospital and Medical Center of Brooklyn, 555 Prospect Place, Brooklyn, N.Y. 11238.**

POSITIONS OPEN

CAPRICORNIA INSTITUTE OF ADVANCED EDUCATION ROCKHAMPTON, QUEENSLAND, AUSTRALIA

SCHOOL OF SCIENCE

Rockhampton, a city of 50,000 people, is situated on the Tropic of Capricorn. The region enjoys a mild winter and hot summer. The Institute has four schools: Engineering, Administrative and General Studies, Education, and Science. Applications are invited for the following positions:

DEPARTMENT OF BIOLOGY

LECTURER (THREE POSITIONS)

One appointee to teach in each of the fields of Plant Science and Ecology, or Physiology. Biologists in any area of specialization may apply for the third position; however, priority may be given to applicants with interests in an applied field, for example, aquaculture and weed control.

Qualifications: Applicants should hold a higher degree in Biology.

Salary: Lecturer I \$11,655–\$15,644 Aust. Lecturer II \$9,946–\$12,846 Aust. Appointees to commence as soon as possible for Semester I, 1976.

Applications: Applications, including full curriculum vitae and names of three referees, should be forwarded to:

**The Registrar
CAPRICORNIA INSTITUTE OF ADVANCED EDUCATION
M.S. 76
ROCKHAMPTON, QUEENSLAND, 4700, AUSTRALIA**

Telex: AA 79 176

POSITIONS OPEN

POSITIONS OPEN

COLLEGE OF PHARMACY

The College of Pharmacy at the University of Michigan is seeking candidates for two assistant professorial positions with Pharm.D. degree or equivalent. Minimum of 1 year as a licensed pharmacist including adequate experience in community practice. A commitment to providing clinical service in community pharmacy. Applications, including curriculum vitae and references, are to be forwarded by 15 July to:

**Dr. A. G. Paul
College of Pharmacy, University of Michigan
4002 College of Pharmacy Building
Ann Arbor, Mich. 48014**

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COLLEGE OF PHARMACY

The College of Pharmacy at the University of Michigan is seeking a candidate with a B.S. in pharmacy or Pharm.D. Ph.D. in pharmacognosy, biochemistry, or natural product chemistry. Minimum of 3 years teaching and research experience, beyond the Ph.D. degree, in pharmacognosy or related area. Applications, including curriculum vitae and references, are to be forwarded by 15 July to: **Dr. A. G. Paul, College of Pharmacy, University of Michigan, 4002 College of Pharmacy Building, Ann Arbor, Mich. 48014.** *A nondiscriminatory, Affirmative Action Employer.*

PHYSICAL SYSTEMS ECOLOGIST

Interdisciplinary environmental science undergraduate/graduate program with regionally applied research; assistant professor rank; salary open; 2-year term appointment; Ph.D. preferred; specialist in abiotic systems or environmental engineering and energy. Write with résumé and three letters of recommendation by 21 July to: **Dr. William G. Berberet, Director, Institute for Man and His Environment, Box 1000, State University of New York, Plattsburgh, New York 12901.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION: Available immediately for studies on chromosome changes during mammalian differentiation. Reply with curriculum vitae including background experience and interests. **Box 313, SCIENCE.**

POSTDOCTORAL POSITION IN IMMUNOGENETICS: Ph.D. OR M.D.

Specific research area will involve biosynthesis of immunoglobulins and/or membrane glycoproteins in relation to genetic control of immunoglobulins in human lymphoid cells. Experience will also be available in cell culture techniques, biochemical genetics, and various aspects of medical genetics. Funded position \$11,000 to \$13,000; open early this September, October, or November.

Write to: **Dr. Stephen D. Litwin, Division of Human Genetics, Cornell University Medical College, 1300 York Avenue, New York, New York 10021.** *An Equal Opportunity Employer.*

POSTDOCTORAL / RESEARCH ASSOCIATE

In protein chemistry to carry on a research program concerned with chemical modification of novel proteins (yeast, leaf, vegetable) and evaluation of their functionality, use, and safety in foods.

Contact:

**Dr. J. E. Kinsella
Department of Food Science
Cornell University
Ithaca, N.Y. 14853**

POSTDOCTORAL RESEARCH ASSOCIATE

Ph.D. in biochemistry, physiology, or related area to work on the mechanism of regulation of intestinal amino acid membrane transport by sodium ion and cyclic nucleotide. Position to begin 1 September 1975 for 1 year. Salary \$10,000. Closing date for applications 8 August 1975. Applicants should submit a curriculum vitae and have letters of recommendation sent to **Dr. Joseph Lerner, Department of Biochemistry, University of Maine, Orono, Maine 04473.** *An Equal Opportunity Employer.*

EDITORIAL

A major scientific journal is seeking a person with a Ph.D. in biochemistry who has had a minimum of 5 years additional experience in research or research combined with other academic activities. Previous experience in a journal desirable and good language facility essential. Individual must have broad interests. Responsibilities include evaluation and technical editing of manuscripts and assumption of responsibility for the journal in the absence of the senior person. Send curriculum vitae and list of publications to **Box 302, SCIENCE.** *An Equal Opportunity Employer.*

HEAD, CHEMISTRY LIBRARY AND DIRECTOR OF INDIANA UNIVERSITY CHEMICAL INFORMATION CENTER

Available 1 July 1975. This position has responsibility for library operations as well as teaching chemical information courses/seminars and planning/implementation of additional computer-based programs. The chemistry library now has active computer-based information retrieval and current awareness services. Faculty rank in the Chemistry Department is possible in addition to library faculty status.

Qualifications include accredited M.L.S. degree or equivalent; 4 years of relevant experience; chemistry background strongly preferred; knowledge of and experience with computer-based information services.

Apply to:

**Carolyn A. Snyder
Personnel Librarian
Indiana University Libraries
Bloomington, Ind. 47401
Telephone: 812-337-3403**

Indiana University is an Equal Opportunity Employer.

HISTORICAL/ECONOMIC/ STRUCTURAL GEOLOGIST

One-half time temporary position at Washington State University to teach historical geology and structural geology or economic geology.

Applicant should hold Ph.D., a record of successful undergraduate teaching and of active research. Recent retiree or person on sabbatical welcome. *Washington State University is an Equal Opportunity Employer.*

Send curriculum vitae and three letters of recommendation to **Chairman, Department of Geology, Washington State University, Pullman, Washington 99163,** not later than 7 August 1975.

Ph.D. IMMUNOLOGIST—Position available 1 July 1975 for Ph.D. Immunologist. Assist in major research program in tumor immunology at UCLA School of Medicine, Harbor General Hospital, Torrance, Calif. Training and experience in cellular immunology and/or tumor immunology and familiarity with in vitro techniques for assaying antitumor immune responses. At least 2 years of postdoctoral training desirable. Candidates should be eligible for academic appointment at the UCLA School of Medicine and will be encouraged to participate in all activities of the Hospital and Medical School. Level of appointment and salary will depend on qualifications and are negotiable. Send curriculum vitae, three letters of reference, and any other pertinent information to: **Dr. Yosef H. Pilch, Chief, Surgical Oncology, Professional Staff Association, Harbor General Hospital, 1124 W. Carson St., Torrance, California 90502.**

KIDNEY PHYSIOLOGY

Ph.D. Research opportunity to work in micro-puncture laboratory. Rank and salary open. Send résumé to:

**Dr. John Donohoe—Res. 215
Boston University School of Medicine
15 Stoughton Street
Boston, Mass. 02118**

LABORATORY CONSULTANT—TECHNICIANS

Modern hospital operating jointly with PAHLAVI MEDICAL SCHOOL in Tehran is setting up a hospital laboratory. Benefits. Appointments yearly. Previous experience required. Start immediately. Send résumé and names of three references to: **Dr. G. Teymourian, Radiology Department, Pahlavi Medical School, University of Tehran, Tehran, Iran.**

MEDICAL DIRECTOR FOR FLAMMABILITY RESEARCH CENTER, University of Utah. Research under way to assess toxicity of new polymeric and other materials. Background in pathology, physiology or toxicology desirable. Data applied to understanding potential human intoxication. Must interact with government agencies and industry. Salary negotiable. Send curriculum vitae to **Flammability Research Center, 391 South Chipeta Way, Research Park, University of Utah, Salt Lake City, Utah 84108.** *Equal Opportunity Employer*

NEUROPHYSIOLOGY

Postdoctoral position available in September for research in neurobiological control of reproductive functions in *Aplysia*. Prefer background in cellular neurophysiology. Send inquiries, curriculum vitae and references to **Dr. J. E. Blankenship, Marine Biomedical Institute, University of Texas Medical Branch, 200 University Blvd., Galveston, Texas 77550.** *We are an Equal Opportunity M/F Employer.*

PEPTIDE CHEMIST

Postdoctoral position available immediately for individual trained in amino acid and/or peptide chemistry. Send curriculum vitae and references to: **Dr. Richard J. Freer, Department of Pharmacology, University of Connecticut Health Center, Farmington, Conn. 06032.** *Applications from women and minority groups welcome.*

Southern Illinois University at Edwardsville School of Dental Medicine invites applications for a 1-year replacement position in the **DEPARTMENT OF PHARMACOLOGY.** This position is a term appointment available 1 September 1975 and will terminate 31 August 1976.

A Ph.D. in pharmacology or allied basic science; or D.D.S., D.M., with special training is required. The appointment will be at the instructor or assistant professor level. Applications will be received until 27 July 1975. *The University is an Equal Opportunity Employer. Applications from women and minorities are encouraged.*

Send curriculum vitae to **Dr. Stanley P. Hazen, Dean, Southern Illinois University, School of Dental Medicine, Edwardsville, Ill. 62025.**

ASSISTANT TECHNICAL DIRECTOR FOR RESEARCH

and Head Research Department

Responsible for development of long term research objectives to meet present and projected needs of the Navy. Coordinate fundamental and applied research efforts in support of Center's mission. Manage and direct approximately 150 scientists and support personnel. Applicants must have demonstrated ability to manage scientific research and to function and operate as a manager in a large multi-discipline scientific workforce. An understanding of basic research problems of Naval weaponry, and the ability to interface research efforts with development efforts is required. Demonstrated experience in formulating proposal for new exploratory work in the evaluation of scientific efforts and programs, and familiarity with government research programs and policies is also required.

Salary: to \$36,000 p.a.
U.S. Citizenship required
U.S. Civil Service

Send resume to:
Employment-Wage and Classification Division
(Code 652-60-0)S
Naval Weapons Center
China Lake, CA 93555

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

CHAIR OF BIOCHEMISTRY IN THE FACULTY OF MEDICINE

Applications for the above post are invited from medically qualified biochemists or scientists with a doctorate and extensive experience in medical biochemistry.

The Professor will be Head of the autonomous Department of Physiological Chemistry which is to be renamed in consultation with the new appointee. Salary: R15 600 per annum without the right to private practice.

Intending applicants should obtain the information sheet relating to this post. The policy of the University is not to discriminate in the appointment of staff or the selection of students on the ground of sex, religion, race, colour or national origin. Further particulars relating to this policy and the extent to which it can be implemented in practice, are included in the information sheet, which should be obtained from the Registrar, University of the Witwatersrand, Jan Smuts Avenue, Johannesburg, South Africa, with whom applications should be lodged not later than 31st July 1975.

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RESEARCH INVESTIGATOR

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Searle Laboratories, a division of G. D. Searle & Co., located in a north suburban area of Chicago, has an immediate opening for a Ph.D. level scientist with a background in Pharmacology, Biochemistry or a related life science.

The responsibilities of this Research Investigator position are to study the absorption, excretion, and metabolism of potential pharmaceutical products in experimental animals and in man. Experience is not necessary; however, a strong interest in utilizing modern analytical techniques in drug metabolism studies is highly desirable.

We offer a competitive starting salary, as well as an excellent benefits package. If you are interested in exploring this opportunity with us, please submit a curriculum vitae to:

Carol L. Bernacchi
Employment Counselor

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G. D. Searle & Co.
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Chicago, Ill. 60680

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POSITIONS OPEN

POSTDOCTORAL POSITION to study the role of protein kinases in cell function. Applicants should have an interest in studying enzymes and/or isolated cells. Send résumé and three letters of reference to **Erwin M. Reimann, Department of Biochemistry, Medical College of Ohio, Toledo, Ohio 43614.**

PROFESSOR AND CHAIRMAN, MATERIALS ENGINEERING

ASSISTANT OR ASSOCIATE PROFESSOR, MATERIALS ENGINEERING

Two positions are open as follows:

1) **Professor and Chairman, Materials Engineering** to lead faculty during consolidation of metallurgy and ceramics programs. Doctorate in metallurgy, ceramics or materials, plus education and research experience, are required. Industrial or government experience will be helpful. Some administration experience desired.

2) **Assistant or Associate Professor, Materials Engineering** to help consolidate metallurgy and ceramics programs. Doctorate in metallurgy, ceramics, or materials and some teaching experience required. Particularly interested in someone to develop courses in processing, structures, and properties with emphasis on structure determination and evaluation.

Inquiries and biographical data should be sent to: **W. R. Hibbard, Jr., College of Engineering, Virginia Polytechnic Institute and State University, Blacksburg, Va. 24061. An Equal Opportunity/Affirmative Action Employer.**

RADIOBIOLOGIST

Ph.D. with active research interest in oncogenesis and/or radiotherapy. Well-qualified individuals should submit curriculum vitae immediately. Rank dependent upon experience and productivity. **Chairman, Department of Radiology, Wayne State University School of Medicine, Detroit, Michigan 48202. An Equal Opportunity Employer.**

RESEARCH ASSOCIATE POSITION. Available 1 June 1975 for Ph.D. to study immunology and biochemistry of lymphocyte membrane antigens. Experience in membrane research, glycoconjugates, and immunology preferred. Send curriculum vitae and references to: **W. J. Esselman, Ph.D., Departments of Surgery and Microbiology and Public Health, Michigan State University, East Lansing, Michigan 48824.** Salary: \$10,000. *MSU is an Equal Opportunity Employer.*

RESEARCH ASSOCIATE—Ph.D. with 0 to 2 years of experience in the area of cell biology or cytogenetics. To pursue an independent research program in identification of cell populations in tissue grafts. Immediate opening. Send curriculum vitae and names of referees to: **Dr. Jane Schultz, Department of Human Genetics, 1137 East Catherine Street, Ann Arbor, Mich. 48105. Telephone: 313-769-7100, Ext. 678.**

RESEARCH ASSOCIATE

Perform postdoctoral research on the biology of *Chlamydiae*. Training in microbiology and biochemistry, plus interest in infectious diseases, desirable. Excellent benefits. Women and members of minority groups are encouraged to apply. Send curriculum vitae and references to: **Dr. James W. Moulder, Department of Microbiology, Cummings Life Science Center, The University of Chicago, 920 East 58 St., Chicago, Ill. 60637. An Equal Opportunity Employer M/F.**

MICHIGAN STATE UNIVERSITY WATER RESOURCES/ECOLOGY

Full-time (12 month) assistant or associate professor position immediately available. Develop and conduct water quality management research as a member of an interdisciplinary team. Incorporate contemporary ecological concepts into evaluation and solution of water-related environmental problems. Teaching optional. Some administrative responsibilities. Must have an earned Ph.D. in an environmental science. Research experience beyond the doctorate desirable. Salary: competitive. Send résumé and three letters of reference to: **Dr. Thomas G. Bahr, Director, Institute of Water Research, Michigan State University, East Lansing, Michigan 48824. MSU is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

QUANTITATIVE PHYSIOLOGIST/BIPHYSICIST

Faculty position. Strong research program and teaching competence in quantitative physiology or biophysics in such areas as membrane biophysics, neurophysiology, synapses, and the like required. Rank dependent on qualifications. Address inquiry to **Dr. A. M. Gordon, Department of Physiology and Biophysics, SJ-40, University of Washington, Seattle, Wash. 98195. An Equal Opportunity Employer.**

TOXICOLOGIST. A position is immediately available in our newly formed bicounty crime laboratory. Minimum requirements: master's degree and at least 1 year of experience. Salary \$18,000. Send letter and résumé to:

**Michael F. X. Gillin
Criminal Justice Planning Unit
Delaware County Courthouse
Media, Pa. 19063**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP in Neurobiology, beginning fall 1975 or later. To participate in ongoing investigation of cellular mechanisms involved in the formation of neuromuscular synapses in vitro. Knowledge of electrophysiology and/or electron microscopy desirable. *The University of Colorado is an Equal Opportunity Employer.* Apply to: **Dr. W. J. Betz, Department of Physiology, University of Colorado Medical School, Denver, Colorado 80220.**

POSTDOCTORAL RESEARCH FELLOWSHIPS: CELL CULTURE-VIROLOGY-ONCOLOGY-LIPID BIOCHEMISTRY-ENZYMOLGY. Two fellowships are now available for periods of up to 2 to 3 years. Applications are invited from individuals, U.S. citizens only, with a recent Ph.D. degree in biochemistry or microbiology. Lipid metabolic studies using radioisotopic tracers, macromolecular structures, cell culture, and obligate intracellular parasites. Enzymological techniques will be employed. Experience in at least two of these areas is desired. The fellowship stipends are negotiable from \$9500 per year depending upon experience. Send curriculum vitae, transcripts, publication list, three letters of recommendation, and time of availability to **Dr. Howard M. Jenkin, The Hormel Institute, University of Minnesota, Austin, Minn. 55912. The University of Minnesota is an Equal Opportunity/Affirmative Action Employer and welcomes applications from members of minority groups and women.** Positions will be available 1 August, 1 October, and 1 January.

New Mexico Institute of Mining and Technology has an opening for a **Postdoctoral Fellowship in Geophysics.** Approximately 2 years. Project: very deep terrestrial heat flow measurements. Involves field measurements of crustal temperatures to 20,000 feet. Mechanical, geophysical, and geological abilities desirable. Position open to geophysicists, geologists, and physicists. Salary approximately \$14,000 per 11 months. Send résumé to **Dr. Marshall Reiter, New Mexico Bureau of Mines, New Mexico Institute of Mining and Technology, Socorro, New Mexico 87801. New Mexico Tech is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH FELLOWSHIPS

In medical genetics or oral-facial genetics for qualified individuals with M.D., D.D.S., and/or Ph.D. Research training opportunities available in cyto- and clinical and biochemical genetics, population and clinical genetics. Send résumé with three references to:

**A. Donald Merritt, M.D.
Department of Medical Genetics
or
David Bixler, D.D.S., Ph.D.
Department of Oral-Facial Genetics
Indiana University Medical Center
1100 West Michigan Street
Indianapolis, Indiana 46202**

An Affirmative Action/Equal Opportunity Employer

The Department of Neurology, Stanford University, offers **NIH fellowships** for postdoctoral training in developmental neurology to qualified applicants holding the M.D., Ph.D., or equivalent degree. Training is available in areas of neurochemistry, animal and human neurophysiology, neuroanatomy, and tissue culture. For further information apply to: **Robert W. P. Cutler, M.D., Department of Neurology, Stanford University Medical Center, Stanford, California 94305.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP. Two NIH postdoctoral fellowships are available immediately for basic research in the sexually transmitted diseases (gonorrhea, syphilis, and trichomoniasis) with emphasis on the biology and biochemistry of the causative organisms and on host-pathogen relationships. Fellowships tenable for 1 or 2 years. Applicants should send a curriculum vitae (with names of three references) to **Dr. R. Roberts, Cornell University Medical College, 1300 York Avenue, New York, N.Y. 10021,** or **Dr. M. Müller, The Rockefeller University, 1230 York Avenue, New York, N.Y. 10021.**

SYMPOSIUM

CELLULAR RADIATION BIOLOGY 8 and 9 September Lake Placid, New York

The W. Alton Jones Cell Science Center will sponsor a 2-day symposium workshop in Cellular Radiation Biology. In-depth sessions will cover (i) radiation classification and interaction with matter (including laser), (ii) effects at the cellular level, (iii) radiation as a tool to study mutagenesis, chromosome structure, mitosis, cell cycle, and so forth, (iv) microbeam irradiation, and (v) accessory techniques. Director: **M. Berns, University of California, Irvine, Contributors: R. Painter, University of California, San Francisco; W. Dewey, Colorado State University; A. Cole, M. D. Anderson, Texas.**

For further information, contact:

**The Course Secretary
W. Alton Jones Cell Science Center
P.O. Box 631
Lake Placid, New York 12946
Telephone: 518-523-2427**

ANNOUNCEMENTS

CYCLAMATE DATA

In compliance with a request from the Food and Drug Administration, the Division of Cancer Cause and Prevention, National Cancer Institute, is undertaking the review and evaluation of all data relating to the possible carcinogenicity of cyclamate or its metabolites. The availability of relevant data should be made known to the below-named individual. Contacts will be accepted on a continuing basis. Data should not be forwarded until after this preliminary contact with **Dr. James M. Sontag, Executive Secretary, Temporary Committee for the Review of Data on Carcinogenicity of Cyclamate, Carcinogenesis, Division of Cancer Cause and Prevention, National Cancer Institute, Landow Building, Room A-306, Bethesda, Maryland 20014. Telephone: 301-496-5471.**

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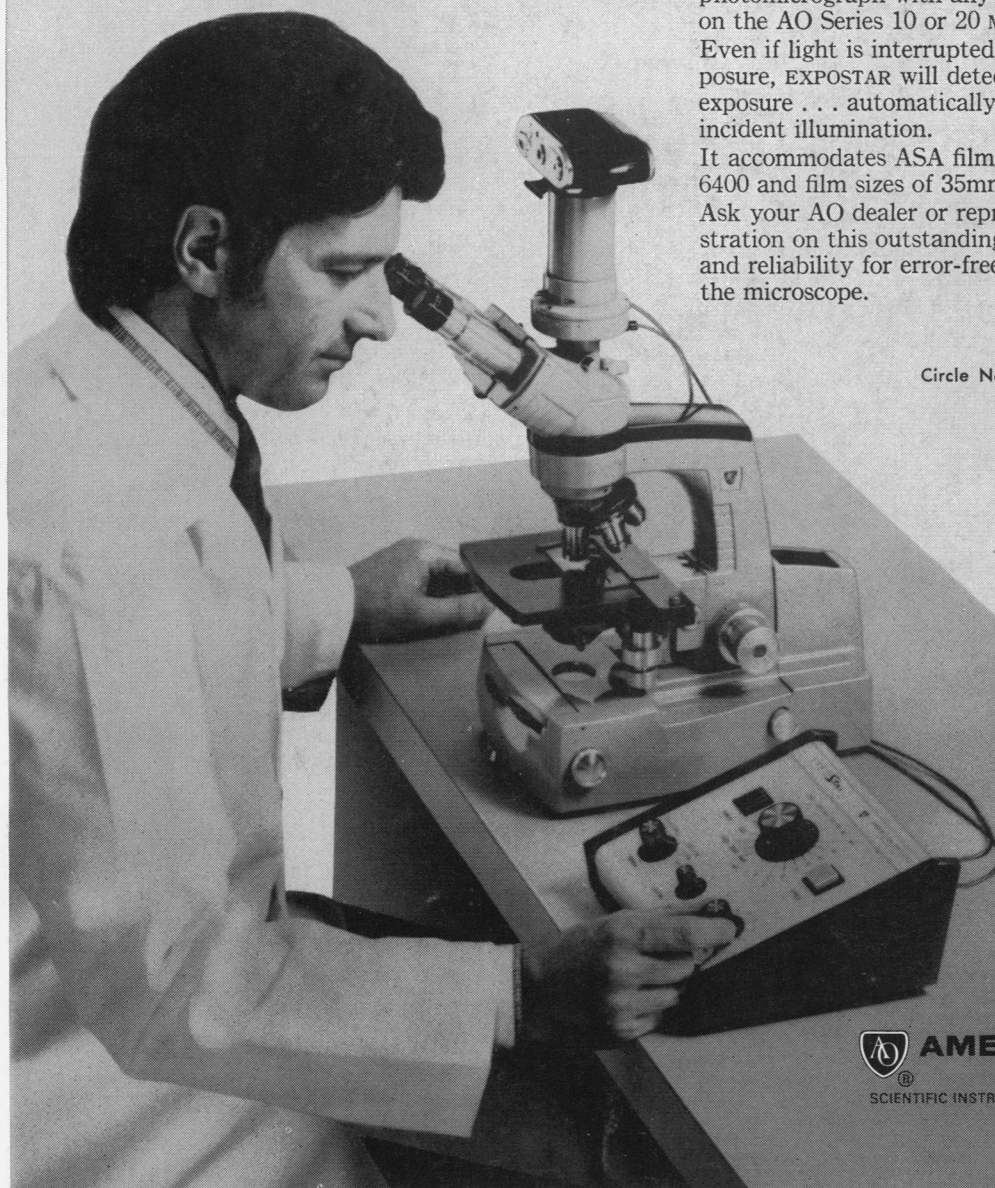
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