

Personnel Placement

Only those employers and individuals who do not discriminate on the basis of race, sex, religion, age, color, or national origin should submit Personnel Placement advertising.

POSITIONS WANTED: 40¢ per word; use of Box Number counts as 10 additional words. Minimum charge \$10. Prepayment required. This rate applies to individuals only; personnel agencies, companies, colleges, and universities take display rate for all advertising.

DISPLAY (POSITIONS OPEN, MARKET PLACE, AND SO FORTH): \$130 per inch, minimum, per insertion (1 inch is equivalent to 11 lines of 52 spaces each). Ads over 1 inch billed to nearest quarter inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information must accompany all other advertising.

COPY for ads must reach SCIENCE by Wednesday, 3-½ weeks before issue date (Friday of each week) requested. Send copy for all positions wanted ads and display ads under 5 inches to:

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

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

Scherago Associates, Inc.
11 West 42nd Street
New York, N.Y. 10036

BLIND AD replies should be addressed as follows:

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

POSITIONS WANTED

Anatomist—Histologist—Embryologist—Electron Microscopist. Ph.D. Desires senior academic teaching-research position. Extensive experience in transmission and scanning electron microscopy, microprobe analysis of normal and pathological tissues. Strong background in all phases of cell ultrafine structure. Versatile, innovative person with genuine commitment to teaching. Numerous publications. Box 328, SCIENCE. X

Animal Nutritionist: (Ph.D., August 1976). Seeks research position. Research experiences include VFA production, tracer-kinetic analysis, amino acid nutrition, ¹⁵N research techniques, radiotracer methodology. Publications. M. J. Glinisky, 124 Animal Sciences Laboratory, University of Illinois, Urbana, Illinois 61801. X

Biochemist. Ph.D. 1972. Experienced in bacterial genetics, enzyme purification, kinetics and regulation, toxicology, and oral biology. Twelve publications. Two years of experience teaching biochemistry and physiology to dental students. Currently holds NIH grant to study enzymes of oral pathogens. Interests flexible. Seeks research position; reasonable teaching load acceptable. M. J. Pabst, C285, School of Dentistry, University of Colorado Medical Center, Denver, Colorado 80220. Telephone: 303-394-5112. X

Biochemist. Ph.D. Postdoctoral research in hormonal regulation of gene expression: enzyme purification, immunoassay techniques, protein/nucleic acid isolation and identification, tissue culture. Experience in both insect and mammalian systems. Seeks research and/or teaching position. Box 329, SCIENCE. X

Cell Biology/Biochemistry: Ph.D., 3 years post-doctoral; publications; cell-free protein synthesis, initiation/elongation factors; effects of aging, diphtheria toxin, nutrition, inhibitors on same; seeks research/teaching position, willing to assist/develop/coordinate minorities program. Box 330, SCIENCE. X

Cultural Geographer, M.A. Anthropogeomorphology/planetary engineering research specialty. California junior college teaching credential. Desires employment in research/teaching. R. Cathcart, 630 South Kenmore Avenue, Los Angeles, California 90005. Telephone: 213-383-5974. X

POSITIONS WANTED

Clinical Biochemist: Ph.D., specialist in chemistry (ASCP). Many years of postdoctoral training in endocrinology. Broad experience in clinical laboratory service. Development and research experience in RIA, bioassay, receptor binding, hormone action, enzyme induction and purification, with many publications. Seeks supervisory position in clinical laboratory with research/teaching opportunity. Box 324, SCIENCE. 7/23, 30 X

Clinical Microbiologist. Ph.D. Registered. Many years of clinical and teaching experience in bacteriology, mycology, and serology. Seeks hospital position with academic affiliation. Box 331, SCIENCE. X

Dermatologist. Desires laboratory research half time. Prefers Pacific Northwest or Great Lakes area. Available July 1977. Box 332, SCIENCE. X

Developmental Biologist/Teratologist: doctorate; teaching/research experience; publications in reproduction, experimental embryology, environmental studies; seeks teaching/research position in gross anatomy, embryology, ecology, biology, epidemiology. Serious offers abroad considered. Box 333, SCIENCE. 7/23, 30 X

Ph.D. (Experimental Pathology) with background in endocrinology and experience in hypertension research, steroidogenesis studies, protein isolation, and RIA; postdoctoral experience; GS-12 rating in animal physiology. Seeking research position. Available August 1976. Box 334, SCIENCE. X

Ex-Columbia professor in Medical Science seeks position with foundation or similar organization. East Coast preferred. Box 335, SCIENCE. 7/23, 30; 8/6 X

Microbiologist, master's degree plus. Energetic problem-solver experienced in research (40 publications) in virology, tissue culture, clinical microbiology, immunology. Seeking position in research, diagnostic laboratory, or industry (production, product development, sales representation, and so forth). Available immediately. Box 336, SCIENCE. X

Natural Products Chemist/Ginseng Expert. Ph.D. 1974. Triterpenoids biosynthesis and plant tissue culture oriented. Experiences in isolation, purification, identification, and radioisotope experiments. Publications. Seeks a position in industry or academia. Box 337, SCIENCE. X

Pharmacologist. Ph.D. 1975, with broad experience in neuropharmacological research, many publications. Seeks research and/or teaching position. Box 338, SCIENCE. X

Psychologist. M.A. Ten years of research experience in learning and performance abilities of chimpanzees and monkeys. Publications. Six years of research and clinical experience in human sensory processes, psychomotor abilities, and clinical evaluation (psychometrics). Box 339, SCIENCE. X

POSITIONS OPEN

ANATOMY—PHYSIOLOGY. Immediate openings, assistant/associate/professor Ph.D. or equivalent, D.V.M. desirable. Productive researchers. Veterinary and graduate teaching.

NEUROANATOMIST (one position) with research interests in neuroscience.

RESPIRATORY PHYSIOLOGIST (two positions). Broad teaching competence in systemic physiology and research interest in respiratory diseases.

ENDOCRINOLOGIST (one position) with research interest in membranes, transport, and receptors with competence in radioimmunoassay.

Applicants should submit résumés and list of three references by 15 August to: Dr. Roger Fedde, Department of Anatomy and Physiology, College of Veterinary Medicine, Kansas State University, Manhattan, Kansas 66506. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, Ph.D. required, 9-month appointment for immunologist-virologist to teach graduate course in immunology and participate in undergraduate program. Send curriculum vitae and three letters of reference by 12 August 1976 to: Search Committee, Department of Biology, Pan American University, Edinburg, Texas 78539. Pan American University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The Department of Psychology at Cornell University has one opening for a junior-level faculty member in **ABNORMAL PSYCHOLOGY**, beginning September 1977. We are looking for someone to teach research methods and substantive topics in human psychopathology at the undergraduate and graduate level. Active research interests as well as outstanding teaching skills are necessary. Firsthand experience in the field, such as that acquired by means of a clinical internship, is highly desirable. There is no training program for clinical psychology at Cornell; therefore, this position would be most attractive to applicants who would enjoy interacting with psychologists in other substantive areas of the discipline.

Candidates should write directly to the Search Committee for Abnormal Psychology, Department of Psychology, Uris Hall, Cornell University, Ithaca, New York 14853. Correspondence should include a complete curriculum vitae and two or three reprints or preprints, as well as letters sent directly from three referees. Deadline for receipt of applications and related materials is 1 December 1976.

Cornell University is an Equal Opportunity Employer and strongly encourages minority candidates to apply.

ACADEMIC MEDICINE—CAREER OPPORTUNITIES in Department of Internal Medicine. Admissions Center. Full-time faculty appointment with responsibilities in well-staffed admissions area of a primary teaching hospital of the Medical College of Wisconsin. Appointment to an appropriate subspecialty section. Ample time and opportunity to pursue clinical or laboratory investigations aimed at developing a career in academic medicine. *Non-discrimination in employment.* Contact: George B. Theil, M.D., Chief, Medical Service, Veterans Administration Center, Wood (Milwaukee), Wisconsin 53193.

The Physics Department of the University of California will have an **ASSISTANT PROFESSOR** position open in **EXPERIMENTAL SOLID STATE PHYSICS** and invites applications from physicists who have specialist backgrounds in modern high-energy spectroscopy of solids in relation to the band structure of solids. Candidates must possess the ability to conduct original research of significance. Applications should be sent to the **Chairman of the Physics Department, University of California, Berkeley, California 94720**, and should be received before 15 October 1976. *The University of California is an Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

ASSISTANT DIRECTOR Exploratory Research

We have an immediate need for an assistant research director to supervise several laboratory sections involved in basic research and product development primarily related to medical devices and dermatological products. Ph.D. in chemistry or biological sciences with at least several years of research and development managerial experience. Must have successful experience in new product development and be a very competent scientist with an interest and background in medical products.

We are a major research facility located in central New Jersey. We offer an excellent salary and fine fringe benefits program.

Qualified applicants should write in confidence to: R. V. Moore, Room M011

Johnson & Johnson
Research

New Brunswick, N.J. 08903
An Equal Opportunity Employer (M/F)

POSITIONS OPEN

FELS RESEARCH INSTITUTE

TEMPLE UNIVERSITY SCHOOL OF MEDICINE

Positions available at the assistant and associate professor level for suitably qualified scientists in basic cancer research including carcinogenesis, cell and molecular biology, and mammalian genetics and aging. Applications, including curriculum vitae, list of publications, and an outline of plans for future research, with or without the names of three references, should be submitted to: **The Search Committee, Fels Research Institute, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, Pennsylvania 19140.** *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR

The Department of Mechanical and Aerospace Sciences of the University of Rochester invites applications for a faculty position at the rank of assistant professor. The appointee will be expected to teach both in our undergraduate mechanical engineering program and our graduate materials science program, and to conduct research in the mechanical properties of materials. Preference will be given to applicants whose areas of interest overlap with our present interests, which include the following: thermodynamics of solids, amorphous materials, electron microscopy, fracture, mechanical testing, x-ray techniques, radiation damage of solids, and heterogeneous materials. Applicants should send a résumé and the names of three references to **Alfred Clark, Jr., Chairman, Department of Mechanical and Aerospace Sciences, University of Rochester, Rochester, New York 14627.** *Full consideration will be given to all qualified candidates in accordance with the University's Affirmative Action Program.*

The Department of Physics at Kansas State University has a temporary position at the rank of **ASSISTANT PROFESSOR** available starting 1 September 1976. Candidates should have a Ph.D. in astronomy or a Ph.D. in physics with an interest in teaching astronomy courses. Postdoctoral experience is preferred. A brief résumé of professional and academic experience including names of references should be received as soon as possible. Reference letters will be requested as needed. We plan to fill this position by 1 August 1976. Applications should be sent to **C. E. Hathaway, Department of Physics, Kansas State University, Manhattan, Kansas 66506.** *Kansas State University is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT RESEARCH ENGINEER. Electronics Research Laboratory, University of California, Berkeley. Temporary full-time position (15 November 1976 to 14 November 1977, possibility of extension contingent upon receipt of additional funding). Salary \$18,600 per year. Assist in design, construction, and operation of a multiple-mirror plasma containment experiment. Perform experiments to determine plasma containment properties. Design and operate required diagnostics. Perform theoretical and computer calculations as required for experiment design and interpretation of results. Ph.D. and 3 years of experience beyond Ph.D. in both experimental and theoretical plasma physics, including publications in both areas. Computation experience. Send résumés to **Professor A. J. Lichtenberg, Department of Electrical Engineering and Computer Sciences, University of California, Berkeley, Calif. 94720.** *The University of California is an Equal Opportunity/Affirmative Action Employer. Minorities and women are urged to apply.*

ASSOCIATE UNIVERSITY DEAN FOR GRADUATE EDUCATION AND RESEARCH

This is a staff position which reports to the University Dean for Graduate Education and Research. Desired qualifications include interest in university administration, an earned doctorate, and teaching and research experience in the humanities or social sciences commensurate with a senior-level faculty appointment. The position is open. The Search Committee is now accepting and considering applications and nominations. Please send information to: **Dr. Albert C. Yates, University Dean, University of Cincinnati, Cincinnati, Ohio 45221.** *The University of Cincinnati is an Equal Opportunity Employer.*

POSITIONS OPEN

AQUEOUS GEOCHEMISTRY

In addition to the position previously advertised, the Department of Geology and Geophysics at the University of Minnesota invites applications for a faculty position in low-temperature, low-pressure geochemistry with major interest in water-mineral interaction, subsurface hydrogeochemistry, and related problems.

In addition to teaching responsibilities in the general area of interest of the applicant, interaction with research programs in groundwater geology, limnology, sedimentology, and hydrothermal ore deposits has to be anticipated.

The position is at the assistant professor level. An associate professor level appointment (without tenure) may be considered for more experienced candidates. This position is one of two to open fall 1976.

Submit résumé and references to: **H. O. Pfannkuch, Search Committee Chairman, Department of Geology and Geophysics, University of Minnesota, Minneapolis, Minnesota 55455.**

The University of Minnesota is an Equal Opportunity Employer.

ASSISTANT PROFESSOR—PHYSICAL SCIENCES/ENGINEER: Capable, dynamic individual to participate in interdisciplinary teaching and research program. Ph.D. in a physical science or an engineering field with interest in energy conversion systems, alternate sources of energy, or energy conservation strategies. Applicants having field or academic experience in one of above-named energy areas preferred. Responsibilities: teaching of undergraduate physics or chemistry courses, participation in undergraduate seminar program, interaction with faculty from other disciplines with common interests in developing graduate and undergraduate curriculum. Ability to relate well to students in formal and informal setting highly desirable. Position carries rank of assistant professor at competitive salary for this rank. Available as early as September 1976. Send résumé, transcripts, and three letters of reference by 7 August to **Dr. H. J. Harris, Chairman, Science and Environmental Change, University of Wisconsin—Green Bay, Green Bay, Wisconsin 54302.** *An Equal Opportunity/Affirmative Action Employer.*

BEHAVIORAL SCIENTIST

The College of Medicine at the University of Vermont has an immediate opening for an experienced research-oriented behavioral scientist (social anthropologist/medical sociologist).

We seek a well-qualified person to conduct a 12-month study of the effect on the Medical Center Hospital community of the planned implementation of a computerized model of health care delivery. The focus of the study will be on a 20-bed general ward and will primarily involve the use of qualitatively oriented research skills.

The person we select must be mature, capable of performing effectively in a sophisticated organizational setting, and possess appropriate methodological and writing skills. The person must also have a well-established track record of previous research, preferably in the health care field.

Send résumé and examples of previous research to **Box 24X, Waterman Building, University of Vermont, Burlington, Vermont 05401.** Additional information may be obtained from **Dr. William C. Strattmann, telephone: 802-656-3750.**

An Affirmative Action Employer

CHAIRPERSON

Department of Avian and Aquatic Animal Medicine

Applications are sought for the chairperson of the Department of Avian and Aquatic Animal Medicine, New York State College of Veterinary Medicine. The individual sought should possess a strong educational and research background in avian and/or aquatic animal medicine, with talents in organization, administration, and interpersonal relations. In addition to academic duties, the Department is responsible for the poultry and aquatic animal disease diagnostic facilities at the College and two regional diagnostic laboratories which are located in different regions of the state. The P. Philip Levine Research Laboratories for Avian Diseases, an integral portion of the Department, is located approximately 2 miles from the College. Applicants should send complete curriculum vitae, personal bibliography, and references to **Dr. L. E. Carmichael, Search Committee Chairman, New York State College of Veterinary Medicine, Cornell University, Ithaca, N.Y. 14853.** *An Equal Opportunity Employer.*

POSITIONS OPEN

A designated Area-wide Wastewater Management (208) Agency is seeking an **AQUATIC ECOLOGIST** to evaluate the effects of, and the options for control of, river pollution in the northeast Ohio (Cleveland) area. The applicant must have a master's degree (or higher) in biology plus a minimum of 2 years' experience beyond degree in fieldwork, preferably in the area of 303 basin planning. The applicant should be familiar with toxic effects of common pollutants on vertebrates, current literature on avoidance behavior and stress responses of fishes and benthic organisms, and should have a working knowledge of the biology of flowing waters, water chemistry, taxonomy of local aquatic flora and fauna, and simple mathematical modeling techniques. Proven writing ability is essential.

Send résumé to **C. E. Richardson, Northeast Ohio Area-wide Coordinating Agency, 400 The Arcade, Cleveland, Ohio 44114.**

ASSOCIATE DIRECTOR. Rare Plant Study Center, The University of Texas at Austin. 1 September 1976; approximately \$12,000; to coordinate a program of research on and propagation and reestablishment of threatened and endangered species of plants. M.S.-level knowledge of organismal and ecological botany as well as administrative experience desired. Send résumé and have two letters of reference sent directly to **M. C. Johnston, Rare Plant Study Center, P.O. Box 8495, Austin, Texas 78712.** **Telephone: 512-471-4327.**

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

BACTERIAL RECOMBINATION BIOLOGIST wanted to investigate genetic manipulation techniques as a means of strain improvement. A bachelor's degree is required, with advanced degrees strongly preferred. Experience with actinomycete genetics would be valuable. Because independent research is involved, evidence of experimental analysis expertise will be required. Salary commensurate with qualifications. West Coast company with excellent benefits. *An Equal Opportunity Employer.* **Box 344, SCIENCE.**

DEVELOPMENTAL BIOLOGIST/ASSISTANT PROFESSOR: Ph.D. required. Salary \$12,000 per academic year. Starting 1 January 1977 or 1 September 1977. Position entails teaching and research in undergraduate and graduate programs. Candidates should send copies of undergraduate and graduate transcripts, résumé, and three letters of reference directly to: **A. H. Desmond, Department of Biological Sciences, Bell Hall, Room 314, George Washington University, Washington, D.C. 20052.** *George Washington University is an Equal Opportunity Employer.*

DIRECTOR OF RESEARCH IN ANESTHESIA—Ph.D. with experience in pharmacological or physiological research related to anesthesia. Will conduct research, train fellows in research, and teach. Level of appointment and salary commensurate with experience and ability. Concurrent appointment with Pharmacology Department in Tufts University School of Medicine. Must be experienced in writing grant proposals and obtaining and administering grant funds. Contact **Kurt F. Schmidt, M.D., Professor and Chairman, Tufts-New England Medical Center Hospital, 171 Harrison Avenue, Boston, Mass. 02111.** *An Equal Opportunity Employer, M/F.*

ECOLOGIST. Assistant professor opening in the area of physiological or behavioral ecology or community energetics. Applicants should have postdoctoral experience and must show strong accomplishments or potential in both research and teaching at the undergraduate and graduate levels. Send curriculum vitae, most significant publications, and names of three references to: **Dr. W. E. Magee, Director, Division of Allied Health and Life Sciences, The University of Texas at San Antonio, San Antonio, Texas 78285.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN BIOLOGICAL OCEANOGRAPHY. Research and teaching at graduate level in the areas of marine phytoplankton ecology and food chain relationships. Existing programs emphasize pelagic biology. A broad oceanographic background and research experience in oceanography are essential. Send letters, curriculum vitae, names of three references, and bibliographies to the **Dean, School of Oceanography, Oregon State University, Corvallis, Oregon 97331.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

CHEMICAL OCEANOGRAPHY

ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE of the University of Miami invites applications for a faculty position that will involve teaching and research. Research interests in the area of sources and fluxes of particles in the ocean would be of special interest. The appointment would be at the assistant or associate professor level, as appropriate. Applicants are requested to contact **James H. Carpenter, Division of Chemical Oceanography, Rosenstiel School of Marine and Atmospheric Science, 4600 Rickenbacker Causeway, Miami, Florida 33149. The University of Miami is an Equal Opportunity/Affirmative Action Employer.**

CHEMICAL OCEANOGRAPHY

ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE of the University of Miami invites applications for a faculty position that will involve teaching and research. Research interests in the area of sediment-water interactions and sediment diagenesis would be of special interest. The appointment would be at the rank of assistant through professor, as appropriate. Applicants are requested to contact **James H. Carpenter, Division of Chemical Oceanography, Rosenstiel School of Marine and Atmospheric Science, 4600 Rickenbacker Causeway, Miami, Florida 33149. The University of Miami is an Equal Opportunity/Affirmative Action Employer.**

DIRECTOR OF PROFESSIONAL AFFAIRS. Progressive northern New Jersey community hospital seeks Board-certified or -eligible internist for full-time salaried position. Duties include administrative and teaching responsibilities in newly established internal medicine training program. Direct inquiries to **Box 343, SCIENCE.**

An Equal Opportunity Employer

DIRECTOR—DIVISION OF ADVANCED PRODUCTIVITY RESEARCH AND TECHNOLOGY

**Research Applied to National Needs
National Science Foundation
Washington, D.C. 20550**

The National Science Foundation (NSF), an independent agency of the federal government, welcomes applications for the position of director, Division of Advanced Productivity Research and Technology. The position is excepted from the competitive civil service. The applicant selected will be offered an excepted appointment under the NSF Act of 1950 as amended.

The salary range for the position is \$36,338 to \$37,800. Fringe benefits include employer contributions to retirement, health and life insurance, and provisions for sick leave and annual leave.

The Research Applied to National Needs Productivity Program supports research related to improving productivity in the public and private sectors. Included are analyses of the effects of technological innovations and of alternative organizational and management arrangements on productivity; analyses of the benefits and costs of public policies affecting productivity; studies of the interrelationships between the allocation of human resources and changes in productivity; and research on industrial processing and regional productivity issues. The major elements of the research program are: Public Sector Productivity, Public Policy, and Private Sector Productivity.

The Division director is responsible to the assistant director for research applications for the management and administration of a research program involving the annual allocation of about \$23 million and for coordination with research programs of other federal agencies.

Applicants should have a Ph.D. in economics, sociology, political science, or operations research with at least 3 years of specialized experience in applied social research, policy research, and research administration.

Those interested in being considered for the position should send a full biographical summary to the **Division of Personnel and Management, Attention: EX-76-01, Section II, National Science Foundation, 1800 G Street, NW, Washington, D.C. 20550.**

The Foundation intends to fill the position no later than September 1976.

The National Science Foundation is an Equal Opportunity/Affirmative Action Employer.

23 JULY 1976

POSITIONS OPEN

DEPARTMENT OF PHYSIOLOGY MCGILL UNIVERSITY

Cell membrane biologist. Applications for an appointment at the rank of assistant professor are invited from individuals with postdoctoral experience in the study of cell-surface receptors at the molecular level. Duties include teaching receptor mechanisms to honors physiology, immunology, and neurophysiology students. Send applications with curriculum vitae and names of three referees to: **Dr. J. Millic-Emili, Chairman, Department of Physiology, McGill University, 3655 Drummond Street, Montreal, Canada H3G 1Y6.**

CELLULAR PHYSIOLOGIST—assistant professor, fall 1976. Ph.D. required. Salary \$12,000 to \$13,000 for 9 months. Teach general biology 50 percent; develop and teach courses in cellular-subcellular physiology 50 percent. Preference to preparation in general biology; graduate preparation in cellular physiology, immunology or virology, biochemistry. Department offers B.A., B.S., and M.S. Send curriculum vitae, personal statement of unique qualifications, official academic transcripts, and three letters of reference to **Dr. Sara Bennett, Faculty Search Committee, Department of Biology, Georgia Southern College, Statesboro, Ga. 30458.**

Equal Opportunity/Affirmative Action Employer

NEW FORESTRY POSITIONS

Teaching and research in forest economics, hardwood silviculture, watershed management, or wild-life habitat management. Assistant professor and instructor levels. Direct applications to:

**Dr. C. B. Davey
Department of Forestry
North Carolina State University
P.O. Box 5488
Raleigh, N.C. 27607**

An Equal Opportunity/Affirmative Action Employer

GEOLOGIST: SEDIMENTOLOGIST

Temporary 1-year position at rank of assistant professor, Department of Geological Sciences, Lehigh University. Candidate must have Ph.D. in geological sciences or oceanography. Duties involve teaching courses in sedimentation, oceanography, and aqueous geochemistry, and supervision of research of graduate students. *Lehigh University is an Affirmative Action/Equal Opportunity Employer.* Send résumé and two supporting letters by 1 August 1976 to **Dr. C. B. Sclar, Department of Geological Sciences, Williams Hall No. 31, Lehigh University, Bethlehem, Pa. 18015.**

The National Science Foundation (NSF) is seeking qualified applicants for the position of **HEAD, Astronomy Centers Section** (\$36,338 to \$37,800). The incumbent of this position will be expected to exercise scientific leadership in guiding the administration of four national astronomy observatories and play a major role in formulating policy governing the support of research impacting upon Astronomy Centers and related fields.

Applicants must have extensive administrative experience, and must have demonstrated national and international leadership on matters dealing with astronomy and/or related disciplines. The position is excepted from the competitive civil service. The applicant selected will be given an excepted appointment under the NSF Act of 1950 as amended.

Those interested in being considered for this position should forward current résumés to the **Assistant Director for Astronomical, Atmospheric, Earth, and Ocean Sciences, National Science Foundation, Washington, D.C. 20550.** Applications are being solicited from qualified individuals in the National Science Foundation, the government, and the scientific community at large. *The National Science Foundation is an Equal Opportunity/Affirmative Action Employer.*

INSTRUCTOR— ANATOMY, PHYSIOLOGY, AND GENETICS

Ph.D. required. Position available 1 September. Send curriculum vitae and three letters of reference by 30 July 1976 to:

**Donald T. Anderson
Franklin Pierce College
Rindge, N.H. 03461**

Equal Employment Opportunity (M/F)

POSITIONS OPEN

DIRECTOR WATER RESOURCES RESEARCH CENTER

Candidates should have the doctorate degree in a field related to water resources as well as experience in research and research administration, preferably gained at one of the State Water Resources Research Institutes. The appointee will undertake to develop a Water Resources Research Center within the Caribbean Research Institute, the research arm of the College of the Virgin Islands. The salary is from \$19,000 to \$22,000 plus a relocation allowance depending upon qualifications. Send inquiries to: **Dr. Norwell Hargigan, Director, Caribbean Research Institute, College of the Virgin Islands, St. Thomas, U.S. Virgin Islands 00801.**

DIRECTOR OF IMMUNOPATHOLOGY

M.D. or Ph.D.

Highly rewarding career opportunity with one of the largest worldwide research institutes. Position involves responsibility for three to four Ph.D.-supervised immunology sections; it requires a proven record of scientific achievement plus the leadership ability necessary to run a creative and enthusiastic department.

This is a challenging position, offering scientific latitude as well as the opportunity for publication and academic affiliation.

Please send résumé including salary requirements to **Box 342, SCIENCE.**

Equal Opportunity Employer, M/F

CHAIRPERSON

**Department of Physical Biology/
Section of Physiology**

Cornell University invites applications and nominations for an individual to serve as chairperson of the Department of Physical Biology and of the newly created Section of Physiology. The Department of Physical Biology in the New York State College of Veterinary Medicine is responsible for teaching and research in physical biology, radiation biology, environmental studies, clinical radiology, and nuclear medicine. It also has responsibility for the clinical radiology and nuclear medicine service of the Veterinary Medical Teaching Hospital. The Section of Physiology in the Division of Biological Sciences is composed of members from several of the colleges in the University. The Section is responsible for the university-wide undergraduate program of instruction in animal physiology and for research and graduate teaching. Special research strengths exist in endocrinology and reproductive physiology, bone and mineral metabolism, gastrointestinal transport, food intake, comparative physiology, and neurophysiology. Candidates should have a distinguished academic background with demonstrated scientific accomplishment in one or more of the areas for which the Section and/or Department is responsible. The individual also should have broad experience and interests in order to provide administrative leadership for a group with diverse scientific backgrounds but with common needs and objectives. Several academic positions now open in the Section and Department will provide the opportunity to develop and integrate programs which have many notable scientific strengths. Correspondence concerning the position should be sent to **Dr. B. C. Tennant, Search Committee Chairman, Office of the Dean, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York 14853. Cornell University is an Equal Opportunity Employer.**

POSITIONS OPEN

INSECT PHYSIOLOGIST

The Entomology Department has an opening for an insect physiologist. Applicants should have a Ph.D., with a strong academic background in the biological sciences, particularly entomology and associated areas such as chemistry and physics.

The responsibilities are to develop and conduct an active research program, direct graduate student research, and teach graduates and undergraduates in the area of insect physiology. All areas of specialization in insect physiology will be given consideration. Rank and salary are commensurate with experience.

Interested, qualified persons should submit their curriculum vitae, undergraduate and graduate transcripts, three letters of recommendation, and a statement of research and teaching interests to:

Eldon E. Ortman
Department of Entomology
Purdue University
West Lafayette, Indiana 47907

Applications will be received until a suitable candidate is found.

An Equal Opportunity Employer; Purdue University is an Equal Access/Equal Opportunity Employer.

LECTURER IN BIOLOGY: Responsibilities: teach in the large general biology course for majors during one quarter of the year, and supervise the support staff for this course during the full academic year. Qualifications: Ph.D. in one of the biological sciences, strong interest in undergraduate teaching, and organizational ability. Salary: open and dependent upon experience (approximately \$14,000). Position open as of 15 September 1976, but may not be filled before 1 January 1977. Send full résumé and names of three persons from whom we may solicit letters of recommendation to: **Richard B. Walker, Director, Office of Biology Education, 205 Johnson Annex A, AF-60, University of Washington, Seattle, Wash. 98195.** *The University of Washington is an Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF MANCHESTER Lectureship in Sedimentology

Applications are invited for the above post tenable in the Department of Geology from 1 September 1976. This post is additional to the Temporary Lectureship advertised in this issue, and candidates for the temporary post who wish to be considered also for this new post should inform the Registrar. The person appointed will be expected to carry out teaching and research in sedimentology and to contribute to the general teaching of the department including fieldwork. Experience of, or interest in, some applied aspects of sedimentology would be an advantage. Initial salary range per annum: £3174 to £3786. Superannuation. Particulars and application forms (returnable by 6 August) obtainable from the Registrar, The University of Manchester, Manchester M13 9PL, England. Quote ref. 74/76/S.

CALIFORNIA STATE UNIVERSITY, CHICO

Meteorology-Physical Science, temporary 1- to 2-year position beginning 30 August 1976. Involves teaching upper- and lower-division meteorology lectures/labs; physical science-environmental science lecture and/or lab instruction. Ph.D. or completion of Ph.D. requirements except dissertation. Rank/salary depend upon qualifications. Send curriculum vitae, transcripts, and three letters to: **J. Behnke, Chairman, Department of Geological and Physical Sciences, California State University, Chico, Calif. 95929.** *Equal Opportunity/Affirmative Action Employer (M/F).*

PHYSICAL OCEANOGRAPHER

E G & G, Environmental Consultants, has an immediate opening for a physical oceanographer with knowledge of dynamical ocean processes, preferably experienced in analysis and reporting of continental shelf data. Duties require sound and independent scientific judgment and leadership, may include planning and supervision of scientific analyses, experiment design and execution, writing of proposals, technical reports, and scientific articles, and/or contact with clients and government agencies. Applicants should have Ph.D. degree in physical oceanography, or master's degree plus several years of directly relevant experience, and must have demonstrable skill in organizing and technical writing. Location: Waltham, Massachusetts (near Boston).

Please send résumé in confidence to **Nikki Gentile, E G & G Environmental Group, 151 Bear Hill Road, Waltham, Mass. 02154.**

POSITIONS OPEN

PHARMACOLOGIST: An associate professorship is available immediately. Minimal requirements are a doctoral degree, productive postdoctoral experience, medical pharmacology teaching experience, and a commitment to research and teaching. Preference given to specialists in the area of CNS or cardiovascular pharmacology. Submit curriculum vitae, including bibliography and names of three references, before 15 August 1976 to **Dr. D. R. H. Gourley, Department of Pharmacology, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, Virginia 23501.** *Equal Opportunity/Affirmative Action Employer.*

WOODS HOLE OCEANOGRAPHIC INSTITUTION

The Woods Hole Oceanographic Institution has two positions available in the **Physical Oceanography Department:**

1) **Assistant scientist (physical oceanographer)**—Applicants should have an academic background (Ph.D.) in geophysical fluid dynamics and some experience in conducting independent research. Some sea experience is preferred. The successful candidate will be appointed for a 2-year term with reappointment to be considered at the end of that term.

2) **Postdoctoral investigator**—Applicants should have a recent degree in physical sciences and a good background in geophysical fluid dynamics. Applicants should be capable of carrying out work at sea and planning independent research in the field of ocean circulation. Successful candidate will be appointed for a 1-year term with renewal for a second year to be considered at the end of that term.

Interested candidates for either position should submit résumés to:

Valentine Worthington, Chairman
Physical Oceanography Department
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543
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PHYSIOLOGY AND BIOPHYSICS—Assistant professor. The Department of Physiology and Biophysics, University of Louisville School of Medicine, Louisville, Kentucky, has a faculty opening (Ph.D./M.D.) at the assistant professor level. Applicants preferred with R.N. diploma or B.S. in nursing with some teaching experience in a Health Sciences Center. Teaching responsibilities include team-taught medical and nursing courses. The individual should be able to effectively teach in areas other than the primary research interest. Evidence of research ability and productivity is necessary. The successful applicant is expected to conduct independent research programs and guide graduate students. Salary is approximately \$17,000. The Department of Physiology and Biophysics moved into new quarters 4 years ago, and has extremely well equipped laboratory and office space. Individuals interested in this position should send a curriculum vitae and three letters of recommendation to: **Thomas B. Calhoun, Ph.D., Professor and Chairman, Department of Physiology and Biophysics, University of Louisville School of Medicine, Health Sciences Center, Louisville, Kentucky 40201.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL BIOCHEMISTRY/PHARMACOLOGY POSITION (2 years) currently available with clinically oriented multidisciplinary group interested in cancer drug metabolism, drug interactions, and pharmacokinetics. Seeking a recent graduate with interest and experience in cancer drug metabolism and pharmacology or related areas. Send résumé and two letters of recommendation to: **Dr. Victor Levin, Brain Tumor Research Center, University of California School of Medicine, San Francisco, Calif. 94143.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION: Applications are invited for a full-time research position involving conductivity studies of semiconductors at microwave frequencies. Experience in electron paramagnetic resonance and microwave techniques is essential. Some exposure to magnetic susceptibility and Mössbauer measurements is desirable. Starting date is 16 August 1976 with a possible second year extension if funds are available. Send résumé and three references to **Dr. M. S. Seehra, Department of Physics, West Virginia University, Morgantown, West Virginia 26506.** *West Virginia University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

NEUROPHYSIOLOGIST

A research associate with expertise in electrophysiological techniques and capable of developing an independent research program is required to join a group studying neurosecretion in invertebrates. Possibility of a continuing faculty position. Curriculum vitae with names of referees to **K. G. Davey, Chairman, Department of Biology, York University, Downsview, Ontario M3J 1P3, Canada.**

POSTDOCTORAL POSITION—MUSCLE PHYSIOLOGY: Available immediately for a person with a doctoral degree interested in the study of cardiac muscle contraction at the single cell level: kinetics of sarcomere shortening and relaxation during a contraction cycle. Strong background in physics, biophysics, or bioengineering desirable. Send curriculum vitae including names of three references to: **Dr. Merrill Tarr, Department of Physiology, University of Kansas Medical Center, Kansas City, Kansas 66103.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION (Ph.D.), 2 years, available immediately. Research on synergistic interactions of chemical carcinogens, light, and mammalian cell extracts with DNA. Experience with chemical carcinogens and nucleic acids desired. Knowledge of infectivity assays, physical characterization, and repair of DNA useful. Send curriculum vitae and request that three letters of reference be sent directly to **Dr. W. D. Taylor or Dr. R. A. Deering, Biochemistry and Biophysics, 618 Life Science Building, Pennsylvania State University, University Park, Pa. 16802.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS

Seeking recent Ph.D. with experience, training, or interest in: (i) chromatin structure and function, RNA and DNA isolation and hybridization, nuclear proteins isolation and characterization, or mRNA or cDNA experimentation, or (ii) bone formation in vitro, role of PTH and other peptide hormones on the adenylate cyclase system or mechanisms involved in biological calcification. Will participate in research program designed to understand the molecular control of muscle, cartilage, and bone differentiation from phenotypically uncommitted embryonic limb mesenchymal cells. Position available immediately. Respond by sending a curriculum vitae, letters of recommendation, reprints, and statements about your current research training and future goals to:

Dr. A. I. Caplan and Dr. J. E. Zull
Department of Biology
Case Western Reserve University
Cleveland, Ohio 44106

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POSTDOCTORAL POSITION: Applicants must be available by October 1976. Project relating to the in vitro interaction of cells and foreign surfaces. Applicant must have experience in handling and culturing primary and established mammalian cell lines. Interest or experience in the field of synthetic polymeric materials for medical applications would also be an asset for this position. Salary \$11,500 per year. Send résumé plus references to **Dr. B. D. Ratner, Department of Chemical Engineering, BF-10, University of Washington, Seattle, Washington 98195.** *An Equal Opportunity/Affirmative Action Employer.*

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Position for a person with education at the M.S. or Ph.D. level and experience in applied mathematics, statistics and ecology. Knowledge of population dynamics theory as it is applied to fisheries is desired. This position involves the application of statistical analysis and mathematical modeling to environmental impact assessment.

Please send resume, academic transcript and references to:
Anthony J. Iarrapino
Department 42.



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Applications are invited for the above post, tenable for 1 year from 1 October 1976, in the Department of Geology. There is a possibility that this may become a permanent post. In addition to teaching metamorphism and carrying out research in this topic, the successful applicant will be expected to make a contribution to the general teaching in the Department. Salary: £3174 to £3786 per annum. Superannuation. Particulars and application forms (returnable by 6 August) obtainable from the

Registrar
The University of Manchester
Manchester, M13 9PL
England

Quote ref. 114/76/S.

TOXICOLOGIST

The continued growth and expansion of Marion Laboratories, Inc., has created an opening on its Research and Development staff for a Manager, Scientific Affairs reporting to the Director, Corporate Scientific Affairs. This position will have direct responsibility for the administrative and laboratory functions of the biological development department.

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POSITIONS OPEN

POSTDOCTORAL POSITION—Individual with a recent Ph.D. for immediately available position carrying the title of research instructor. Training and/or experience in microbial biochemistry/physiology with an interest in electron microscopy desirable. Send detailed résumé to: **Dr. M. L. Higgins, Department of Microbiology and Immunology, Temple University School of Medicine, Philadelphia, Pa. 19140.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION

Position available immediately to study amino acid transport and metabolism in plant tissue cultures. Two- to 3-year appointment. Contact **Dr. Alva App, Boyce Thompson Institute, 1086 North Broadway, Yonkers, N.Y. 10701.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION: Recent Ph.D. in x-ray crystallography to work on updating existing (or developing new) computer programs for protein structure work. Proteins being studied include hemoglobin, transferrin, and serum albumin. Salary \$10,000 and up, depending on experience. Send curriculum vitae and names of three references to **Dr. P. D. Pulsinelli, Departments of Medicinal Chemistry and Crystallography, 729 Salk Hall, University of Pittsburgh, Pittsburgh, Pa. 15261.**

POSTDOCTORAL RESEARCH ASSOCIATE. A position is available for a person interested in gaseous diffusion in ocular tissues. Applicants should be trained in physiology and/or biophysics with a good mathematical background. Please submit résumé and three references to: **Dr. Ronald E. Barr, Department of Ophthalmology, University of Missouri, Columbia, Missouri 65201.** *An Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE: A postdoctoral position is open, starting date flexible after 1 October 1976, for the physical study of chromosomal proteins. Please send curriculum vitae and names of references to **I. Isenberg, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, Oregon 97331.** *An Affirmative Action/Equal Opportunity Employer.*

TOXICOLOGY DIRECTOR

Not-for-profit contract research Institute seeks director of toxicology to develop the Institute's toxicological evaluation capabilities, assist its biomedical devices development work with medical schools and with industry, and train staff in toxicological screening of chemicals, including volatile compounds administered both by gavage and inhalation. Applicant must be experienced in laboratory animal response in both acute and chronic experimental programs. Ph.D. in toxicology or pharmacology preferred; biochemistry or physiology acceptable with sufficient toxicology experience. This position requires an experienced research manager with recognized professional expertise who can take charge.

SENIOR TOXICOLOGIST

Not-for-profit contract research Institute seeks experienced toxicologist as principal investigator of a multimillion dollar carcinogenesis bioassay program. Principal investigator will supervise a team of chemists, veterinarians, and pathologists.

Applicant must be experienced in laboratory animal response in both acute and chronic experimental programs. Ph.D. level in toxicology or pharmacology preferred. Master's degree level in toxicology or pharmacology or Ph.D. in biochemistry or physiology acceptable with sufficient toxicology experience.

Salary open. Familiarity with the South helpful. Please send résumé to:

Personnel Manager, Gulf South Research Institute, 7700 GSRI Avenue, Baton Rouge, Louisiana 70808.

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POSITIONS OPEN

POSTDOCTORAL POSITION available immediately. Strong possibility of a second postdoctoral position, probably part time. Project deals with **ragweed pollen allergenic proteins**, their inter- and intraspecific variability, biosynthesis, and intracellular location. Training or expertise in protein biochemistry, cytology, and serological procedures is necessary. Experience in palynology is highly desirable. Send résumé and transcripts of graduate work to **Dr. David B. Dickinson, 107 Vegetable Crops Building, Department of Horticulture, University of Illinois, Urbana, Illinois 61801.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION

Immediate 2-year opening to participate in studies of the biochemistry of chemical carcinogen-liver chromatin interaction. Major emphasis will be an analysis of chromatin components, binding affinities for carcinogens, and functional alterations. Experience in the biochemistry and chromatin and/or nucleic acids, or protein isolation and characterization is preferred. Send curriculum vitae and three letters of reference to: **Frederick F. Becker, M.D., Chairman, Department of Anatomic and Research Pathology, The University of Texas M. D. Anderson Hospital and Tumor Institute, Texas Medical Center, Houston, Texas 77030.**

RESEARCH ASSISTANT—Biological sciences, 2-year position. Research on interferon induction and mechanism of antiviral interference. Prefer master's and strong background in biochemistry of nucleic acids and protein synthesis and structure as well as mammalian tissue culture and virology experience. Grant position; salary \$7000 to \$9000. Send curriculum vitae and three letters of recommendation to **Dr. William Graziadei, Department of Biological Sciences, Box 1000, State University of New York, Plattsburgh, New York 12901,** by 1 August 1976. *An Equal Opportunity/Affirmative Action Employer.*

PROGRAMS

MARINE BIOLOGICAL LABORATORY (MBL)
Woods Hole, Massachusetts 02543
offers

A YEAR IN SCIENCE AT THE MBL

The Ecosystems Center offers to a selected group of advanced undergraduates and graduate students the opportunity to arrange a distinctive curriculum of study and research throughout the 1976-77 academic year at the Marine Biological Laboratory. Emphasis will be on the science of environment. Individual programs will be arranged with advice of staff of the Laboratory in consultation with other members of the Woods Hole academic community. Students will have the opportunity to participate in various courses and seminars offered throughout the year by the MBL, including the well-known January courses. Preference will be given to students enrolled in degree-granting institutions. Staff of the Ecosystems Center includes George M. Woodwell, Director; Daniel B. Botkin; John E. Hobbie; Charles A. S. Hall; Bruce Peterson; Jerry Melillo, and others.

For further information and application forms write to **Admissions Office, Marine Biological Laboratory, Woods Hole, Mass. 02543.** Deadline for applications for the spring semester is 1 November.

The Marine Biological Laboratory admits students of any race, color, and national or ethnic origin.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

Large, sophisticated biomedical laboratory located in the Northeast seeking a Ph.D. with a strong background in organic chemistry, preferably with experience in protein chemistry, to investigate the mechanism of action of proteolytic enzymes, especially those involved in blood coagulation. Available immediately; currently funded for 3 years at starting salary of \$13,404. Send curriculum vitae and names of three references to **Box 341, SCIENCE.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

Large, sophisticated research-oriented laboratory located in the Northeast seeking a Ph.D. with training and experience in molecular virology to study the biogenesis of mRNA of adenovirus in a cell-free system. Available immediately; currently funded for 3 years; starting salary of \$13,404. Send curriculum vitae and names of three references to **Box 340, SCIENCE.**

POSTDOCTORAL FELLOWSHIPS IN MARINE STUDIES

The Institute for Marine Studies of the University of Washington is seeking candidates for two postdoctoral fellowships in marine studies. These individuals will be part of a five-person team involved in designing new management regimes for the North Pacific region. The initial 2-year effort will focus on the impacts of multiple uses of the North Pacific Ocean on fisheries production, exploitation, and management. The project will begin on 15 September 1976. Submit curriculum vitae or nominations to **Professor Edward Miles, Institute for Marine Studies, HA-35, University of Washington, Seattle, Wash. 98195.** *An Equal Opportunity/Affirmative Action Employer.*

COURSES

MARINE BIOLOGICAL LABORATORY (MBL)
Woods Hole, Massachusetts 02543

announces courses for 3 to 28 January 1977

for advanced undergraduates and graduate students

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Comparative Histology—Lecture and laboratory exercises in comparative structure and function of animal tissues using material available from electron microscopy. Keith R. Porter, Instructor-in-Charge, University of Colorado, and MBL.

Ecology—A lecture, laboratory, and field course on the structure, function, and interactions of ecosystems. George M. Woodwell, Instructor-in-Charge, The Ecosystems Center, MBL.

Behavior—An ethological approach to the biology of terrestrial and marine animal behavior. Robert L. Jeanne and Jelle Atema, Instructors-in-Charge, Boston University. Offered by the MBL in conjunction with the Boston University Marine Program.

Neurobiology—An intensive study of selected topics including lectures, seminars, and laboratory experiments with living material. Fred Lang, Boston University Marine Program, and Alan Fein, MBL, Instructors-in-Charge. Offered by the MBL in conjunction with the Boston University Marine Program.

Tuition: \$500; room and board: \$226.

For further information and application forms write to **Admissions Office, Marine Biological Laboratory, Woods Hole, Mass. 02543.** Deadline for receipt of applications is 1 November 1976.

The Marine Biological Laboratory admits students of any race, color, and national or ethnic origin.

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Yes, but obviously not without serious hazard. To cope with a spill safely, one needs information, materials, a cool head, and skillful hands. Inevitably, the response to a spill is a hurried improvisation, sometimes skillful, sometimes not. And the necessary materials are usually just not available. Most importantly, a panic response to a chemical spill can itself often lead to injuries.

Specifically, what's wrong with the usual remedies, home or otherwise?

We've carefully analyzed the common approaches to spill control and have found many major, potentially hazardous inadequacies. Each of the usual remedies suffers from one or more of the following problems. *Acid spills*: insufficient neutralization (or none at all); no indicator; no control over amount of heat generated; no cleanup or disposal equipment. *Caustic spills*: spill absorbed, not neutralized; no cleanup or disposal equipment. *Flammable solvent spills*: solvent absorbed and still flammable; increased fire and explosion hazards by increasing amount of solvent in air; no cleanup or disposal equipment. *Mercury spills*: no provision for micro-droplet or large droplet pickup; no provision for absorbing mercury vapor. *Cyanide spills*: ineffective;

potentially very dangerous; no cleanup or disposal equipment. *Hydrofluoric acid spills*: Fluoride ion ineffectively neutralized; no cleanup or disposal equipment.

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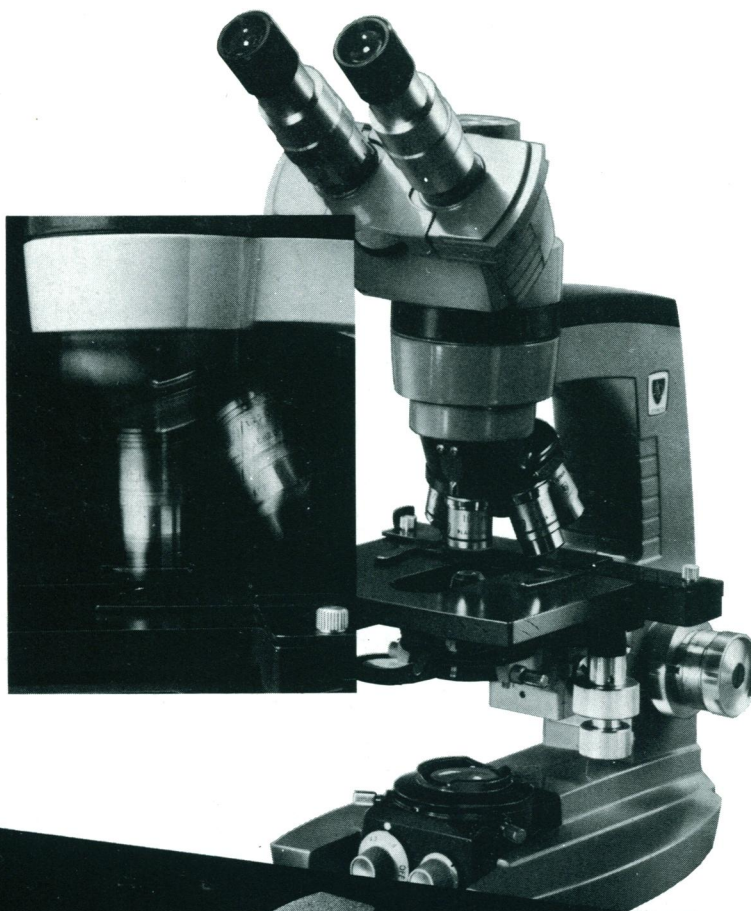
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