

Man Discovers the Galaxies. Richard Berndzen, Richard Hart, and Daniel Seeley. Science History Publications (Neale Watson), New York, 1976. x, 228 pp., illus. Cloth, \$15.95; paper, \$6.95.

Management of the High-Risk Pregnancy. Proceedings of a symposium. Orlando, Fla., Mar. 1975. William N. Spellacy, Ed. University Park Press, Baltimore, 1976. xii, 272 pp., illus. \$24.50.

Manual Communication. A Basic Text and Workbook with Practical Exercises. Dean A. Christopher. Illustrated by William R. Edwards. University Park Press, Baltimore, 1976. xiv, 530 pp. Paper, \$14.50.

Mathematical Physics and Physical Mathematics. Proceedings of a symposium, Warsaw, Mar. 1974. Krzysztof Maurin and Ryszard Rączkz, Eds. Reidel, Boston, and PWN (Polish Scientific Publishers), Warsaw, 1976. xviii, 504 pp. \$39. Mathematical Physics and Applied Mathematics, vol. 2.

New Directions in Attribution Research. Vol. 1. John H. Harvey, William John Ickes, and Robert F. Kidd, Eds. Erlbaum, Hillsdale, N.J., 1976 (distributor, Halsted [Wiley], New York). xii, 468 pp. \$19.95. *To order this book circle No. 441 on Readers' Service Card.*

Our Continent. A Natural History of North America. National Geographic Society, Washington, D.C., 1976. 398 pp., illus. \$11.95. Natural Science Library.

Oxyurata of Animals and Man. Part 3. K. I. Skryabin, N. P. Shikhobalova, and E. A. Lagodovskaya. Translated from the Russian edition (Moscow, 1964). Israel Program for Scientific Translations, Jerusalem, 1976 (U.S. distributor, Halsted [Wiley], New York). vi, 486 pp., illus. \$48.50. Essentials of Nemotodology, vol. 13. *To order this book circle No. 442 on Readers' Service Card.*

The Parvoviruses. G. Siegl. Springer-Verlag, New York, 1976. iv, 112 pp. \$23. Virology Monographs, 15. *To order this book circle No. 443 on Readers' Service Card.*

Pesticides in the Environment. Vol. 2. Robert White-Stevens, Ed. Dekker, New York, 1976. xviii, 458 pp., illus. \$37.50.

Philosophical Dimensions of the Neuro-Medical Sciences. Proceedings of a symposium, Farmington, Conn., May 1975. Stuart F. Spicker and H. Tristram Engelhardt, Jr., Eds. Reidel, Boston, 1976. vi, 274 pp. \$29. Philosophy and Medicine, vol. 2. *To order this book circle No. 444 on Readers' Service Card.*

The Psychology of Learning and Motivation. Advances in Research and Theory. Vol. 10. Gordon H. Bower, Ed. Academic Press, New York, 1976. xiv, 248 pp., illus. \$18.50.

The Role of Health Insurance in the Health Services Sector. Proceedings of a conference. Richard N. Rosett, Ed. National Bureau of Economic Research, New York, 1976 (distributor, Neale Watson, New York). xiv, 548 pp. \$17.50. Universities-National Bureau Conference Series, no. 27.

Science at the Bicentennial. A Report from the Research Community. Report of the National Science Board/1976. National Science Foundation, Washington, D.C., 1976 (available from the Superintendent of Documents, Washington, D.C.). xii, 154 pp. Paper, \$2.95.

The Soil Factor in Nutrition. Animal and Human. Kenneth C. Beeson and Gennard Matrone. Dekker, New York, 1976. xiv, 152 pp. \$19.75. Nutrition and Clinical Nutrition, vol. 2.

Soviet-American Academic Exchanges, 1958-1975. Robert F. Byrnes. Indiana University Press, Bloomington, 1976. xii, 276 pp. Paper, \$10.

Stromatolites. M. R. Walter, Ed. Elsevier, New York, 1976. xii, 790 pp., illus. \$99.95. Developments in Sedimentology 20.

Sufficient Statistics. Selected Contributions. Vasant S. Huzurbazar. Anant M. Kshirsagar, Ed. Dekker, New York, 1976. xvi, 270 pp. \$27.50. Statistics, vol. 19.

Survey of the World's Aphids. V. F. Eastop and D. Hille Ris Lambers. Junk, The Hague, 1976. vi, 574 pp. Dfl. 160.

Synthetic and Mechanistic Organic Chemistry. Springer-Verlag, New York, 1976. iv, 260 pp., illus. \$35.30. Topics in Current Chemistry, 62. *To order this book circle No. 445 on Readers' Service Card.*

Table of Laser Lines in Gases and Vapors. R. Beck, W. Englisch, and K. Gürs. Springer-Verlag, New York, 1976. iv, 132 pp. \$19.70. Springer Series in Optical Sciences, vol. 2. *To order this book circle No. 446 on Readers' Service Card.*

Thai Peasant Social Structure. Jack M. Potter. University of Chicago Press, Chicago, 1976. xii, 250 pp. + plates. \$17.50.

Theory and Measurement of Economic Externalities. Paper from a conference, Edwardsville, Ill., Apr. 1974. Steven A. Y. Lin, Ed. Academic Press, New York, 1976. xiv, 266 pp., illus. \$19.50. Economic Theory and Mathematical Economics.

Thermodynamics of Nonequilibrium Processes. S. Wiśniewski, B. Staniszewski, and R. Szymanik. Translated from the Polish edition (Warsaw, 1973). Reidel, Boston, and PWN (Polish Scientific Publishers), Warsaw, 1976. xiv, 274 pp. \$36. *To order this book circle No. 447 on Readers' Service Card.*

Thermodynamics of Polymerization. Hideo Sawada. Kenneth F. O'Driscoll, Ed. Dekker, New York, 1976. xiv, 404 pp., illus. \$39.50.

3rd International Conference on Nuclei Far from Stability. Corsica, France, May 1976. CERN, Geneva, 1976. viii, 608 pp., illus. Paper. CERN 76-13.

This Season's People. A Book of Spiritual Teachings. Stephen Gaskin. The Book Publishing Company, Summertown, Tenn., 1976. 168 pp., illus. Paper, \$2.50.

Trace Amines and the Brain. Proceedings of a meeting, San Juan, P.R., Dec. 1975. Earl Usdin and Merton Sandler, Eds. Dekker, New York, 1976. xvi, 302 pp., illus. \$29.75. Psychopharmacology, vol. 1.

Transport and Transfer Processes in Plants. Proceedings of a symposium, Canberra, Australia, Dec. 1975. I. F. Wardlaw and J. B. Passioura, Eds. Academic Press, New York, 1976. xviii, 484 pp., illus. \$19.50.

Triplet States III. Springer-Verlag, New York, 1976. iv, 156 pp., illus. \$26.30. Topics in Current Chemistry 66. *To order this book circle No. 448 on Readers' Service Card.*

Tuning in to Nature. Solar Energy, Infrared Radiation, and the Insect Communication System. Philip S. Callahan. Drawings by James Brogdon. Devin-Adair, Old Greenwich, Conn., 1976. xxviii, 240 pp. \$10.

Understanding and Prediction. Essays in the Methodology of Social and Behavioral Theories. Stefan Nowak. Reidel, Boston, 1976. xx, 488 pp. \$60. Synthese Library, vol. 94. *To order this book circle No. 449 on Readers' Service Card.*

Women and the Workplace. The Implications of Occupational Segregation. Papers from a conference, Wellesley, Mass., May 1975. Martha Blaxall and Barbara Reagan, Eds. University of Chicago Press, Chicago, 1976. x, 326 pp. Cloth, \$12.50; paper, \$3.95. Originally published as a supplement to *Signs*, vol. 1, no. 3.

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1. Russell, D.H., and S. Snyder, *PNAS*, **60**, 1420 (1968).
2. Harris, R.S., in *The Vitamins*, 2, W.H. Sebrell, Ed., Academic Press, New York, 1-116 (1968).

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SCIENCE, VOL. 195

Personnel Placement

POSITIONS WANTED

Biochemical Pharmacologist, Ph.D. (biochemist). Established research program and many publications on neurotransmitters and psychotropic drugs. Oriented to psychiatry. Desires academic position. Box 76, SCIENCE. X

Biochemist, Ph.D. 1974. Experienced instructor in general chemistry and biochemistry laboratory. Broad background in protein isolation and characterization, enzyme kinetics, radioisotope methods, tissue culture, cell fractionation, and most analytical biochemical techniques. Postdoctoral research in hormone binding and cancer. Publications. Seeks academic or industrial position. Box 77, SCIENCE. X

Cardiovascular Physiologist/Biomedical Engineer, Ph.D. in physiology, M.S.E.E., B.S.E.E. Considerable experience with conscious instrumented dogs, instrumentation and computing systems, teaching, and so forth. Seeks teaching/research position. Box 78, SCIENCE. X

Chemist, Ph.D., 1974, in physical chemistry. Two years of postdoctoral training in biochemistry. Seeks research position in biomedical sciences. Box 79, SCIENCE. X

Civil Engineer, Ph.D. Twenty-two years of leadership and administrative experience, plus teaching and research. Now a cabinet rank agency head in state government. Likes people, science, and the future. Will work in academe, industry, or government. Box 80, SCIENCE. X

Clinical Biochemist, M.T. Ph.D. Specialist in chemistry (ASCP). Broad experience in clinical chemistry, RIA, radioreceptor assay, automation, method development. Publications. Seeks hospital position. Box 81, SCIENCE. X

Immunologist, Ph.D. 1972. Immunochemistry, protein chemistry, oncology. Experience with tumor-associated antigens, development of RIA's, solid-phase techniques, immunofluorescent methodologies, enzymology, writing proposals. Industrial, teaching, and clinical experience. Publications. Seeking position in eastern U.S. Box 70, SCIENCE. 2/25; 3/4

Neurologist/Virologist. Assistant professor of neurology. Laboratory and clinical research concerns possible viral causation of multiple sclerosis. Seeks academic position with congenial and productive associates. Box 82, SCIENCE. X

Pharmacologist, M.S. 1976. Enthusiastic individual seeks research, regulatory, or clinical position in pharmaceutical industry. Has 3 years of academic research experience. Box 83, SCIENCE. X

Physician, certified ABNM and anatomic and clinical pathology; 18 years of experience, environment, nuclear medicine, and pathology; research. Box 84, SCIENCE. X

Ph.D. Physiological Psychologist. Multidisciplinary expertise (teaching and research), biofeedback, ICSS, chronic electrode implantation, electronic instrumentation, animal behavior, brain SP, EEG, and massed units activity correlated with learning, visual perception, and behavior. Box 85, SCIENCE. 2/25; 3/11

Research Architect. B. of architecture, MS., architecture, postgraduate research. Broad experience related to energy research and applied research with heavy emphasis on solar energy and its technologies. Author of papers and publications; seeks research-applied research, or teaching position. Excellent references available. Relocation not a constraint. Box 74, SCIENCE. X

Toxicologist, Ph.D. 1975. Genetic and industrial toxicology. Postdoctoral inhalation technique and contract administration experience. M.S. in fisheries biology (water pollution ecology). Seeking position with interdisciplinary research/academic group. Box 86, SCIENCE. 2/25; 3/4

POSITIONS OPEN

ACADEMIC POSITION

The Department of Environmental Health, University of Cincinnati Medical Center is inviting applications for an academic position of the rank of assistant professor or higher, depending upon qualifications. The person would be responsible for developing a program of research and graduate instruction in the area of mechanisms of toxic responses, preferably with emphasis on the lung. Expertise in aerosol technology and inhalation facilities available in the department. Send curriculum vitae and three references to **Dr. Paul B. Hammond, Department of Environmental Health, University of Cincinnati Medical Center, 3223 Eden Avenue, Cincinnati, Ohio 45267. An Affirmative Action/Equal Opportunity Employer.**

ANATOMIST

Assistant professorship, starting 1 July 1977. Applicants must have Ph.D. or M.D. degree and demonstrated ability to teach gross anatomy and neuroanatomy to medical students. Preference given to beginning investigator with active research program in neuroscience. Send résumé and names and addresses of three references, by 15 March 1977, to: **Search Committee, Department of Anatomy, Dartmouth Medical School, Hanover, New Hampshire 03755.**

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ASSISTANT PROFESSOR IN ANALYTICAL CHEMISTRY. The University of Massachusetts seeks an analytical chemist, preferably with interests in the biomedical-clinical-pharmaceutical area. Outstanding candidates in other specialties will be considered. Send résumé, transcript, and three reference letters to **Sidney Siggia, Chemistry Department, University of Massachusetts, Amherst, Mass. 01003. An Affirmative Action/Equal Opportunity Employer.**

Applications are invited for a position at the **ASSISTANT PROFESSOR** level in the Department of Biochemistry and Molecular Biology of Harvard University. Preference will be given to candidates whose research is in the areas of the molecular biology of animal cells and viruses or cell membranes and cell structures. Candidates should have demonstrated the capacity to do exceptional independent research. Applications from women and minorities are encouraged. The candidate should submit (within 3 weeks) a curriculum vitae including a list of publications, a few recent reprints, a short description of future research plans; in addition, three letters of recommendation should be sent to: **Thelma Shapiro, Administrative Assistant, Department of Biochemistry and Molecular Biology, Harvard University, 9 Kirkland Place, Cambridge, Massachusetts 02138. Harvard University is an Equal Opportunity/Affirmative Action Employer.**

ATMOSPHERIC SCIENCES

The Department of Atmospheric Sciences of Oregon State University invites applications for two positions as **assistant professor of atmospheric sciences** and one position as **instructor**. Preference will be given in the assistant professor appointments to candidates with a doctoral degree in atmospheric sciences and with research experience in: (i) atmospheric dynamics, numerical modeling, and the theory of climate, and (ii) diagnostic and statistical analysis of large-scale atmospheric behavior, with a supporting background in atmospheric dynamics. These positions will involve teaching at the undergraduate and graduate levels and participation in research programs. Preference will be given in the instructor appointment to candidates with a master's degree in atmospheric sciences and with at least 2 years of experience teaching atmospheric science at the undergraduate level. Appointments to these positions may be made in September 1977 or later (assistant professors) and in March 1977 or later (instructor), at salary levels dependent upon the applicants' qualifications. Interested candidates should submit a complete résumé (including curriculum vitae, education, experience, and publications) and request that three letters of recommendation be sent before 15 March 1977 to:

**Professor W. L. Gates, Chairman
Department of Atmospheric Sciences
Oregon State University
Corvallis, Oregon 97331**

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POSITIONS OPEN

VISITING ASSISTANT PROFESSOR. The Biology Program at Stockton State College anticipates a 1-year opening as replacement for a faculty member on leave; beginning September 1977. To teach general biology and general education courses plus a course in specialty. Candidate should have commitment to undergraduate teaching excellence. Write for detailed description to **Dr. Philip Nanzetta, Dean, Faculty of Natural Sciences and Mathematics, Stockton State College, Pomona, N.J. 08240. Affirmative Action Employer.**

ALBERT EINSTEIN COLLEGE OF MEDICINE DEPARTMENT OF ANATOMY

Positions are available at the **assistant professor** level in research areas related to **membrane biology and cell motility**. Candidates should have postdoctoral experience, a record of outstanding research accomplishment in cell, molecular, or membrane biology, and an interest in teaching medical and graduate students in the anatomical sciences. Applicants should submit a curriculum vitae, a brief description of future research plans, and three letters of recommendation to **Chairman, Department of Anatomy, Albert Einstein College of Medicine, Bronx, New York 10461. Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR, PHYSICAL CHEMISTRY, WESLEYAN UNIVERSITY: A tenure-track position starting July to September 1977. Duties include teaching at undergraduate and graduate (Ph.D.) levels and developing an excellent research program. Send résumé, 3-page description of planned research, and names of three references before 1 April 1977 to **Professor Wallace Pringle, Department of Chemistry, Wesleyan University, Middletown, Connecticut 06457**. Wesleyan will solicit references after initial screening. *Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT OF RADIOLOGICAL SCIENCES UNIVERSITY OF CALIFORNIA, IRVINE COLLEGE OF MEDICINE

Applications are invited for a post at the **associate professor** level in the Section of Therapeutic Radiology at the University of California, Irvine, College of Medicine. This will be a full-time position with responsibilities for teaching at undergraduate and graduate levels and for clinical research and service in the University of California, Irvine Medical Center. The applicant should be a Board-certified radiologist with postcertification experience in therapeutic radiology in a university medical school, and must be prepared to engage in ongoing research and to develop new research protocols. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Applications, including a short biography and copies of any publications, should be sent to:

**Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717**

Closing date: 1 April 1977.

Note: This supersedes a previous position available at the assistant professor level.

BIOCHEMIST—Ph.D. with training in biochemistry to participate in major chemical carcinogenesis program. A full-time position with faculty appointment at the University of Southern California School of Medicine. *Applications from women and minority groups are welcome.* Qualified individuals reply with curriculum vitae to: **Stuart E. Siegel, M.D., Head, Division of Hematology-Oncology, Childrens Hospital of Los Angeles, 4650 Sunset Boulevard, Los Angeles, California 90054.**

BIOCHEMIST: International leader among chiropractic colleges has immediate opening for biochemist. Ph.D. preferred; M.S. a minimum. Nutrition background desirable. Teaching experience a must. Assignment: teach biochemistry courses, lecture and laboratory and assist with organic labs. Rank open. Salary competitive. Liberal fringe benefits. Interested candidates should send curriculum vitae, three letters of reference, and transcripts of all post-secondary education to: **Dr. Jacob Fisher, Academic Dean, National College of Chiropractic, 200 East Roosevelt Road, Lombard, Illinois 60148.**

POSITIONS OPEN

The University of Illinois at Urbana-Champaign, the Department of Psychology, seeks an **ASSISTANT PROFESSOR** in the Division of Clinical Psychology, beginning August 1977. Position includes teaching at undergraduate and graduate levels, and supervision of psychotherapy practice. Applications should contain curriculum vitae, copies of research publication, preprints of work in progress, and three letters of recommendation. Applications will be accepted immediately, preferably by 1 April in order to ensure consideration. Salary is dependent upon qualifications and experience. Submit to **John Gottman, Clinical Search Committee, Department of Psychology, University of Illinois, 51 East Gerty Drive, Champaign, Illinois 61820.** *The University of Illinois is an Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT OF BIOLOGY VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

The Biology Department invites applications for two new positions to start September 1977 in the following areas:

- 1) **MAMMALOGY** with emphasis in an experimental field that utilizes mammals (G. M. Simmons, chairman).
- 2) **SOIL MICROBIOLOGY** with expertise in nitrogen fixation and soil microorganisms-plant interactions (N. R. Krieg, chairman).

The successful candidates will participate in the departmental teaching program and develop courses in their area of specialty. Each candidate is expected to initiate and maintain a vigorous research program. Salary and rank are commensurate with experience. Applications, including a curriculum vitae, a statement of teaching and research interests, and the names and addresses of three references, should be sent to the **chairman of the appropriate search committee, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Va. 24061.** Deadline for applications is 20 March 1977.

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BIOLOGIST/ MICROBIOLOGIST (Electron Microscopy)

Experience in the biological sciences and electron microscopy, with a master's degree desired. This is a career Civil Service position, GS-7: \$11,523 to GS-9: \$14,097. U.S. citizenship required. Please send inquiries, curriculum vitae, and bibliography by 15 March 1977, to **Dr. P. Pinto da Silva, National Cancer Institute, National Institutes of Health, Public Health Service, 9000 Rockville Pike, Building 10, Room 5B47, Bethesda, Maryland 20014.** *Equal Opportunity Employer.*

BIOLOGY TEACHING POSITION. Alderson-Broadus, a small, private, church-related, liberal arts college has an opening for a biologist to teach classes in anatomy, physiology, and microbiology starting 1 September 1977. Master's degree required with rank and salary depending on credentials. *Alderson-Broadus, a college interested in value oriented education, is an Affirmative Action/Equal Opportunity Employer.* Send credentials, letters of recommendation, and college grade transcripts to **Dr. Robert Maruca, Chairman, Division of Natural and Applied Sciences, Alderson-Broadus College, Philippi, West Virginia 26416.**

Directorship, Physician's Assistant Program—Alderson-Broadus, a small, private, liberal arts college, interested in value-oriented education and located in wild, wonderful West Virginia, has an opening for a program director in its Physician's Assistant Program. Applicants for this position must be competent in the administration of Allied Health Programs; experience is desirable, and must be able to help implement the College's liberal arts and Christian goals. Salary competitive and dependent on credentials. *Alderson-Broadus College is an Affirmative Action/Equal Opportunity Employer.* Send complete credentials, letters of recommendation, and college grade transcripts to **Dr. Robert Maruca, Chairman, Division of Natural and Applied Sciences, Alderson-Broadus College, Philippi, West Virginia 26416.**

POSITIONS OPEN

BIOCHEMISTRY RESEARCH ASSOCIATE. Appointment beginning this summer, to study chemical mechanisms of biosynthetic reactions, as applied to the design of antimetabolites. Candidates with some experience in synthesis or kinetics should contact **Dr. Richard Wolfenden, Department of Biochemistry, University of North Carolina, Chapel Hill, North Carolina 27514.** *The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.*

CARDIOVASCULAR PHYSIOLOGIST

Senior faculty position for persons with demonstrated success in teaching cardiovascular physiology at preclinical and clinical levels. Candidates with Ph.D. or M.D. degrees will be considered. Active research program and accomplishments essential. Clinical involvement possible but not essential. Send résumé to **Cardiovascular Search, Department of Physiology, School of Medicine, University of North Carolina, Chapel Hill, N.C. 27514.** *An Equal Opportunity/Affirmative Action Employer.*

The Department of Biological Sciences at Stanford University plans to appoint two faculty at the non-tenured level in the general areas of **CELLULAR AND DEVELOPMENTAL BIOLOGY**. These positions will be on the Palo Alto campus and will be available in September 1977. Successful candidates should have demonstrated independent research capabilities and are expected to participate in both undergraduate and graduate teaching programs in the department, as well as to carry out an active research program. Preference for one of the positions may be given to a person whose research activities are in botanical systems. Nominations or curriculum vitae should include the names of three references and can be sent to: **Robert T. Schimke, Search Committee Chairperson, Department of Biological Sciences, Stanford University, Stanford, California 94305.**

Stanford University is an Equal Opportunity/Affirmative Action Employer.

The UCLA School of Medicine is seeking the most highly qualified person to become **CHAIRMAN** of its Department of Pediatrics on 1 July 1977. Candidates must have substantial background in academic pediatrics, with interest and experience in patient care, teaching, research, and administration. *UCLA is an Equal Opportunity/Affirmative Action Employer, and encourages minority and women candidates to apply.* Interested persons should submit letters summarizing their qualifications to: **Chairman, Pediatrics Search Committee, c/o Dean, UCLA School of Medicine, Los Angeles, California 90024.**

CHAIRMAN DEPARTMENT OF ENGINEERING AND PUBLIC POLICY

The Department of Engineering and Public Policy of Carnegie Institute of Technology is seeking a chairman. Candidates must hold a Ph.D. or its equivalent in engineering, applied science, applied mathematics, or statistics, and have an outstanding record of research and administrative accomplishment in the field of technology and public policy. Also desired are experience and demonstrated skill in undergraduate and graduate teaching, and policy experience in metropolitan, state, or federal government. Send résumé with full list of publications to:

**Professor Francis C. McMichael
Engineering and Public Policy Search Chairman
Carnegie-Mellon University
Pittsburgh, Pa. 15213**

Carnegie-Mellon University is an Equal Opportunity Employer.

CHAIRPERSON

The Division of Natural Sciences and Mathematics at Marymount Manhattan College is seeking applicants for the position of chairperson. Responsibilities include development of the undergraduate program in science and math, teaching, faculty supervision, administrative duties, fund raising for special projects. Requirements: Ph.D. with evidence of administrative ability and development of funded programs. Specialization in biological or health sciences and a minimum of 3 years college level teaching. Salary competitive. Applications accepted through 18 March 1977. Position available 1 July 1977. Send application to:

**Academic Dean
Marymount Manhattan College
221 East 71 Street
New York, N.Y. 10021**

POSITIONS OPEN

Rush-Presbyterian-St. Luke's Medical Center (*An Equal Opportunity/Affirmative Action Employer*) is seeking a **CHAIRPERSON** for its Department of Microbiology. Responsibilities include a personal and administrative role in the departmental research and research training program along with a major participatory role in the graduate school faculty. The department is responsible for teaching bacteriology and virology in three colleges of the University: medicine, nursing, and health sciences. It is also responsible for the operation of the clinical bacteriology and virology laboratories of the Medical Center's 850-bed teaching hospital. The chairman has the opportunity to sit in or be represented at each of the University's and the hospital's major faculty and staff committees. Total student body is fewer than 1000 with programmatic emphasis on post-baccalaureate curriculum. Send curriculum vitae and supporting materials to **Dr. Mark H. Lepper, Chairman of Search Committee, Rush University Academic Facility, 600 South Paulina Street, Chicago, Illinois 60612.**

CHAIRPERSON BIOCHEMISTRY

The University of Utah Medical Center seeks a distinguished scientist for appointment as professor and chairperson of the Department of Biochemistry.

Candidates will please send their curriculum vitae including their experience and accomplishments in research and teaching to:

**Biochemistry Search Committee
c/o Dr. D. F. Summers
Department of Microbiology
5C126 Medical Center
University of Utah
Salt Lake City, Utah 84132**

An Equal Opportunity Employer

CHIEF OF ANGIOGRAPHY

Applications are invited for the position of chief of angiography at the University of California, Irvine, Medical Center. The successful candidate will be appointed associate or full professor in the Department of Radiological Sciences. The department is presently undergoing expansion and the new chief will have responsibility for designing and selecting equipment for the angiographic laboratories and of instituting a fellowship program. A separate suite of developmental labs for medical imaging is presently under construction on campus in association with the new medical sciences building and unique opportunities exist for both basic and applied interdisciplinary research.

The duties of the position include responsibility for the angiographic service, film reporting, and teaching at graduate and undergraduate levels.

Candidates must have had specialized training in angiography and must be well versed in the latest catheterization techniques, in the use of sophisticated imaging modalities (including magnification) and in the use of "therapeutic" angiography, and should have an extensive bibliography which documents original contributions to the field of angiography and superior abilities as a researcher.

Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. If you are interested in this position please write to the address below including a curriculum vitae, an autobiographical letter, and copies of publications.

Closing date: 1 April 1977.

**Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717**

CLINICAL PATHOLOGIST

Applications sought for staff position in the clinical laboratory of Childrens Hospital of Los Angeles. Experience or training in hematopathology is required and experience or training in blood banking is desirable. California license and CP board required. Salary and faculty rank at University of Southern California School of Medicine commensurate with experience. Reply to: **Director of Laboratories, Childrens Hospital of Los Angeles, P.O. Box 54700, Los Angeles, Calif. 90054.** *Equal Opportunity/Affirmative Action Employers.*

POSITIONS OPEN

BIOLOGY CHAIRPERSON

Associate professor or professor, beginning 1 September 1977, to coordinate and administer affairs of 29-member department offering bachelor's and master's degrees. Demonstrated ability in teaching and research essential. Administrative experience and evidence of ability to work with faculty desirable. Send résumé, citing three references, by 15 March 1977, to Dr. Richard Draper, Biology Chairperson Search Committee, Department of Mathematics, George Mason University, Fairfax, Virginia 22030. George Mason University is a state university near Washington, D.C.

An Affirmative Action/Equal Opportunity Employer

DEPUTY DIRECTOR FOR ADMINISTRATION UNIVERSITY OF ARIZONA CANCER CENTER

The University of Arizona Cancer Center is seeking a deputy director for administration. Candidates should be experienced in health research administration, relevant aspects of basic and clinical science, as well as unique features of cancer programs. Applicants should have prior experience with proposal writing, possess writing and other communication skills, and be willing to travel to meet sponsors. Responsibilities will include close and responsive interaction with the Center's scientific director and executive committee, program planning, supervisory management of budget aspects, and coordination and evaluation of operational aspects of ongoing programs. Position open immediately. A Ph.D. or M.P.H. is preferred. Send résumé, curriculum vitae, and names of at least three references by 1 March 1977 to: Sydney E. Salmon, M.D., Director, Cancer Center, University of Arizona College of Medicine, Tucson, Arizona 85724. An Affirmative Action/Equal Opportunity Employer.

DIRECTOR, SEA GRANT PROGRAM

Sea Grant Program Director: half-time appointment. Qualifications are a Ph.D. in a marine science discipline, demonstrated ability for administration of academic interdisciplinary programs, distinguished scientific reputation in some area of marine sciences. The director will be responsible for management and coordination of a multidisciplinary university-system Sea Grant Program. Apply by 1 March 1977. Send résumé, references, and supporting material to:

Michael J. Pelczar, Jr.
Vice President for Graduate Studies and Research
University of Maryland
College Park, Maryland 20742

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

DIRECTOR WILDLIFE BIOLOGY PROGRAM UNIVERSITY OF MONTANA

Staff position, fiscal year appointment to begin 1 July 1977. Ph.D. in wildlife or related field, demonstrated ability to: assume administrative responsibilities and leadership in program development, act as liaison with agencies and organizations, and teach. Rank and salary commensurate with training and experience. Send inquiries, curriculum vitae, transcripts, and three references to: Dr. Leslie Pengelly, School of Forestry, University of Montana, Missoula, Mont. 59812 by 1 March 1977. The University of Montana is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

THE PENNSYLVANIA STATE UNIVERSITY Director, Center for Air Environment Studies (CAES)

Applications are invited for the position of director with a joint tenure-eligible appointment in engineering, life sciences, or physical sciences. The director is the chief academic administrator of an interdisciplinary research organization studying the origin, effects, and control of air pollution. The applicant must possess a doctorate and research experience especially with interdisciplinary programs. Teaching experience is desirable.

The position is available for immediate occupancy with rank and salary commensurate with qualifications. Applicants should send complete résumé and the names, titles, and telephone numbers of four references to Dr. Robert J. Heinsohn, Room 226A, Fenske Laboratory (telephone: 814-865-1415), The Pennsylvania State University, University Park, Pennsylvania 16802 by 1 May 1977.

Penn State is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CELL BIOLOGIST TUFTS UNIVERSITY

Faculty position available starting September 1977 for a cell biologist, preferably with an interest in developmental problems. Preference will be given to candidates who have demonstrated excellence in teaching and with proven ability to obtain research funding. Teaching duties will include the design and supervision of cell-biology experiments in a large undergraduate laboratory course and teaching a lecture course in the molecular aspects of cell biology. Terms of appointment commensurate with experience and ability.

Please send curriculum vitae, three representative reports, and three letters of recommendation to:

Chairman, Cell Biology Search Committee
Department of Biology
Tufts University
Medford, Massachusetts 02155

Application deadline: 15 March 1977.

Tufts University is an Equal Opportunity/Affirmative Action Employer. We encourage applications from women and minority group members.

ELECTRON MICROSCOPY RESEARCH ASSISTANT

The Baltimore Cancer Research Center has an immediate opening for an electron microscopy research assistant. Interested persons must have a degree and experience in all preparative techniques for TEM and SEM including use of ultramicrotomes, negative staining, and dark room procedures. Individual must be familiar with tissue cultures, cytochemistry, and skills in clinical hematology preparation. We offer competitive salary and fringe benefits. Send curriculum vitae with references to:

M. D. McCallum
University of Maryland at Baltimore
685 West Baltimore Street
Baltimore, Maryland 21201

FACULTY-ASSISTANT PROFESSOR positions expected to become available for fall 1977: (i) animal behaviorist with strength in social behavior of invertebrates or nonprimate vertebrates, and (ii) invertebrate neurophysiologist with interest in neural integration. Applicants should submit a curriculum vitae, statement of teaching and research interest, copy of papers published, and names of three references to: Frank C. Erk, Chairman, Department of Biology, State University of New York, Stony Brook, New York 11794. Equal Opportunity/Affirmative Action Employer.

CALIFORNIA POLYTECHNIC STATE UNIVERSITY (SAN LUIS OBISPO)

The Biological Sciences Department is seeking qualified applicants to fill four faculty positions available fall 1977.

- 1) **MICROBIOLOGIST.** Assistant professor: \$13,572 to \$16,320. Doctorate and experience in sanitary and/or aquatic microbiology. Teaching experience highly desirable. The successful candidate will be expected to teach courses in general and sanitary microbiology.
- 2) **PLANT PATHOLOGIST.** Assistant professor: \$13,572 to \$16,320. Ph.D. and 2 years' teaching experience (at time of appointment) in lecture and laboratory courses in plant pathology. Training in ornamental plant pathology and experience in commercial applications desirable. The successful candidate will be expected to teach courses in general botany and plant pathology.
- 3) **PARASITOLOGIST.** Lecturer (1-year appointment) \$13,572 to \$16,320. Doctorate. Experience in clinical and/or medical parasitology highly desirable. The successful candidate will be expected to teach courses in general zoology and parasitology.
- 4) **ZOOLOGIST.** Lecturer (1-year appointment) \$13,572 to \$16,320. Doctorate. Experience in marine and/or freshwater plankton desirable. The successful candidate will be expected to teach courses in general biology and zoology.

Applications should be received on or before 1 April 1977. Submit all inquiries to Dr. John K. Hampton, Jr., Head, Biological Sciences Department, California Polytechnic State University, San Luis Obispo, Calif. 93407. Affirmative Action/Equal Opportunity/Title IX Employer.

AURA Association of Universities for Research in Astronomy, Inc. Seeks a PRESIDENT

AURA, a nonprofit corporation with headquarters in Tucson, Arizona, manages the Kitt Peak National Observatory near Tucson, the Cerro-Tololo International Observatory in Chile, and such other astronomical programs and facilities as might from time to time be mutually agreed upon with the National Science Foundation, which is the primary source of funding. The corporate board is comprised of representatives from 12 research universities with major programs in astronomy and of several at large representatives. The observatories are operated as national facilities.

The Board of Directors has directed that a search be initiated for a president who will serve as chief executive officer of the corporation and will be the primary liaison between the board and the directors of the several observatories. The new president should have a background in science or engineering, preferably experience in astronomical science or related fields. Interactions with the NSF and other federal agencies will be frequent, and an awareness of such processes is desirable. Demonstrated administrative ability is essential.

There is no firm starting date but the board desires to fill the position as soon as practical. Salary and terms commensurate with background and experience.

All qualified candidates will be considered without regard to race, national origin, religion, or sex. Applications or nominations are asked for by 7 March 1977, but later inquiries may be considered.

Inquiries, nominations, or applications may be directed to the chairman of the search committee:

Dr. Cornelius J. Pings
Vice Provost
California Institute of Technology
Pasadena, California 91125

FACULTY POSITIONS College of Medicine King Faisal University Dammam, Saudi Arabia

Biology	Epidemiology
Chemistry	Biochemistry
Physics	Embryology
Anatomy	Physiology
Community medicine	Hematology
Biostatistics	Pathology

Applications are invited from U.S., British, and Canadian academicians who have a doctorate or similar degree and postdoctorate teaching experience. Openings are available immediately and for 1977-1978 at all levels. The language of instruction is English.

Salary ranges:	Monthly salary and bonus in Saudi riyals	Approximate annual equivalent in U.S. dollars
Professor	6,720 to 7,392	\$22,600 to \$24,800
Associate professor	5,376 to 6,496	\$18,100 to \$21,800
Assistant professor	4,032 to 5,152	\$13,500 to \$17,300

M.D. degree commands a higher salary. Fringe benefits include free furnished accommodations and annual leave and travel allowance to country of origin.

Send résumé and names, addresses, and phone numbers of three references to:

Mohammed T. Altorki, M.D., MRCP
Dean of the Medical Faculty
King Faisal University
c/o Saudi Arabian Educational Mission
2223 West Loop South, Suite 400
Houston, Texas 77027

Specify teaching experience and date of availability.

POSITIONS OPEN

FACULTY POSITION IN BIOLOGY. The Biology Department of Emmanuel College seeks a physiologist working toward the Ph.D. to begin at the level of instructor in September 1977. Applicants must be committed to excellence in undergraduate education. Primary teaching responsibilities will include anatomy and physiology for nursing students as well as upper level courses in cellular physiology and genetics. Send curriculum vitae and names of three references by 18 March 1977 to: **Dr. G. Douglas Crandall, Chairman, Department of Biology, Emmanuel College, Boston, Mass. 02115.**

An Equal Opportunity/Affirmative Action Employer

THREE FACULTY POSITIONS

The Marine Science Program of Southampton College seeks individuals with Ph.D. and marine-related research interests for fall 1977. **Physical oceanographer** to teach specialty and math or physics. **Biochemist** to teach specialty and general chemistry. **Fisheries biologist/aquaculturist** to teach specialty and general biology. For complete job description send résumé to **Search Committee, Science Division, Southampton College of Long Island University, Southampton, N.Y. 11968.**

Equal Opportunity/Affirmative Action Employer

FACULTY POSITION-BIOPHYSICS/PHYSICS

Applications are invited for a joint position, at the rank of assistant professor, in the Department of Physics and the Biophysics Research Division. A Ph.D., competence to conduct independent research in experimental biophysics in the division laboratories, and ability to teach in the Department of Physics are essential. Must have potential to make significant contributions to both units. Qualified individuals should send a résumé and the complete names and addresses of three references to **Dr. Martha L. Ludwig, Biophysics Research Division, Institute of Science and Technology, University of Michigan, Ann Arbor, Michigan 48109.** A nondiscriminatory, Affirmative Action Employer.

GROSS ANATOMIST. The Section of Gross Anatomy, Department of Surgery, invites applications for an instructorship in gross anatomy. The appointment is for 2 years beginning no later than 1 September 1977. A Ph.D. and/or M.D. degree and experience in teaching gross anatomy to medical students and in original research are required. *Applications from women and minority group members are encouraged.* Send application, curriculum vitae, publications list, and three letters of recommendation to **Dr. Thomas R. Forbes, Section of Gross Anatomy, Department of Surgery, School of Medicine, Yale University, New Haven, Conn. 06510,** by 15 March. *Yale is an Equal Opportunity/Affirmative Action Employer.*

HEADSHIP, DEPARTMENT OF PHARMACOLOGY

Applications are invited for the recently vacated headship of the Department of Pharmacology in the College of Medicine, University of Arizona. Interested applicants should possess an M.D., Ph.D., or both; have an established record in research; and have a sincere interest in medical and graduate education. Applications, including a complete curriculum vitae, should be sent by 15 March 1977 to:

**Dr. William H. Dantzer
Chairman, Search Committee
Department of Physiology
College of Medicine
University of Arizona
Tucson, Arizona 85724**

An Equal Opportunity/Affirmative Action Employer

INSTRUCTOR/POSTDOCTORAL FELLOW

The Department of Physiology invites applications for the position of instructor/postdoctoral fellow. Appointment to commence 1 July 1977. Specialization in cardiovascular physiology, biomedical engineering, renal or GI physiology will be considered. This would be a 1- to 2-year position with consideration for permanent appointment at the end of that time. Candidates would be expected to participate in teaching medical students in a new School of Medicine. Salary is negotiable based on experience. Interested individuals should send a curriculum vitae and the names of three references by 1 April 1977 to **Dr. Francis L. Abel, Chairman, Department of Physiology and Pharmacology, University of South Carolina School of Medicine, Columbia, South Carolina 29208.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

HEAD-BIOLOGICAL SCIENCES GROUP, University of Connecticut. Nominations and applications are invited for the position of head of the Biological Sciences Group at the University of Connecticut. The Biological Sciences Group has 75 full-time faculty members, approximately 550 undergraduate majors, and 250 graduate students. A wide variety of courses and research programs leading to the bachelor's, M.S., and Ph.D. degrees are offered through the seven sections of the Biological Sciences Group: biochemistry and biophysics, botany, ecology, genetics and cell biology, microbiology, regulatory biology, and systematics and evolutionary biology. The University has an enrollment of approximately 16,000 undergraduate and 5500 graduate students. Qualifications include outstanding administrative and leadership ability, a distinguished research record, and a demonstrated interest in promoting excellent teaching and research. Position available 1 September 1977. Send a curriculum vitae and the names and addresses of at least three references to: **Frank D. Vasington, Search Committee Chairman, Box U-98, University of Connecticut, Storrs, Connecticut 06268.** *An Equal Opportunity Employer.*

LIBRARY SERVICES, ASSOCIATE DIRECTOR

Qualifications: ALA-accredited MLS; Ph.D. required, in natural or social sciences, especially life or behavioral sciences, strong liberal arts background, interest in Swarthmore-Sangamon "Teaching Library" concept; library experience in reader and technical services, administrative experience, teaching and research background, fluent and precise command of English, one foreign language. Benefits: medical plan, TIAA or state retirement, academic rank, and so forth. Faculty of 600, 11,000 students, library faculty 28, support staff 40, 500,000 volumes. Salary \$18,000, depending on qualifications. Write **Dr. E. A. Brunelle, Director of Library Services, J. Y. Joyner Library, East Carolina University, Greenville, N.C. 27834.** All applications, including résumés and transcripts, must be received by 15 March 1977. *An Equal Opportunity/Affirmative Action Employer.*

MEDICAL DIRECTOR for national health foundation. M.D. preferred, but others with advanced degree may be considered. Applicant should have experience in clinical or laboratory research activities and must have demonstrated ability in science management. Knowledge of federal health and grants programs desirable. Opportunities available for intra- and extramural program development. Salary open and competitive with medical or graduate school stipends. Position available 1 July 1977. For further information send résumé, a list of at least four personal references, and a summary of your professional interests and plans to: **Medical Director's Search Committee, Cystic Fibrosis Foundation, 3379 Peachtree Road, NE, Atlanta, Georgia 30326.** *An Equal Opportunity Employer.*

MICROBIOLOGIST. Applications are invited for a faculty position in the Department of Microbiology. Applicants should have a conferred doctorate, and research experience, and should be capable of teaching in the areas of general microbiology and microbial genetics or molecular genetics. The successful candidate will be expected to direct a high-quality research program in areas such as microbial and/or molecular genetics, viral or phage genetics, plasmid or extrachromosomal genetics. Rank and salary open. Send a biographical sketch and a list of at least five references to **Professor S. Kaplan, Department of Microbiology, University of Illinois, Urbana, Ill. 61801,** no later than 15 April 1977. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.*

NEUROBIOLOGIST

A junior faculty position is available for a young researcher in the Division of Neurobiology and Behavior, a research and teaching unit jointly sponsored by Departments of Physiology and Psychiatry, College of Physicians and Surgeons, Columbia University. Applicants should have broad research training in neuropsychology, with at least 3 years of postdoctoral work. Experience with molluscan behavioral techniques, cellular physiology of nerve and muscle, and a background in neurochemistry is also desirable. Please send résumé to: **Dr. E. R. Kandel, Columbia University, 630 West 168th Street, New York, N.Y. 10032.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

Ph.D. MOLECULAR BIOLOGIST: work on chloroplast protein assembly and nucleic acids. Contact **Dr. Harry Roy, Biology Department, MRC 353B, Rensselaer Polytechnic Institute, Troy, New York 12181.** *RPI is an Equal Opportunity/Affirmative Action Employer.*

NEUROSCIENTIST, interested in developing nervous system and mental retardation. Experience commensurate with professional level. Direct inquiries to **C. F. Barlow, M.D., Department of Neurology, 300 Longwood Avenue, Boston, Mass. 02115.** *Harvard Medical School and Children's Hospital Medical Center are Equal Opportunity/Affirmative Action Employers, M/F.*

Board-certified or Board-qualified **PATHOLOGIST** trained in molecular biology for research and teaching position at a large eastern medical center.

Box 87, SCIENCE

An Equal Opportunity/Affirmative Action Employer

PATHOLOGISTS are needed at the new University Hospital of the University of Massachusetts Medical Center. Positions available range from assistant professor to full professor. Preference given to Board-certified pathologists with primary interest in surgical pathology (including cytopathology) and autopsies, and strong collateral interest in teaching and/or research. *Minority candidates and women are especially encouraged to apply.* Write to **Dr. G. Majno, Chairman, Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Mass. 01605.** *An Equal Opportunity/Affirmative Action Employer.*

PHARMACOLOGISTS, TOXICOLOGISTS (2). Applications are invited for faculty positions at assistant or associate professor level. Candidate must have Ph.D., M.D., or D.V.M. degree and postdoctoral research experience. Established investigator or potential to develop independent research program. Teaching experience preferred but not essential. Send curriculum vitae and names of three references to: **Dr. Theodore M. Brody, Chairman, Department of Pharmacology, Life Sciences Building, Michigan State University, East Lansing, Michigan 48824.** *An Equal Opportunity/Affirmative Action Employer.*

Ph.D.'s.—MANUFACTURING

E. R. Squibb & Sons, Inc., a leading pharmaceutical manufacturer, has several immediate openings for Ph.D.'s in its New Brunswick, New Jersey, manufacturing facility. We are seeking recent graduates from several science disciplines including chemistry, biology, pharmacy, chemical engineering, physics, and related areas. Initial assignments will be in one of our manufacturing or production departments as supervisors. The intent of this program is to expose Ph.D.'s to our processes at the production level and then move them to key technical positions within the company including manufacturing management, supporting staff areas, and research and development.

We are seeking individuals who are not necessarily looking for the traditional entry level research and development positions. Our assignments will be immediately challenging and will consist of real responsibility in an industrial environment. Successful candidates will be expected to perform as a line supervisor and success at this position will be important in terms of being considered for additional assignments in the company.

Prior experience is not necessary although previous industrial work experience at any level would be advantageous. An interest in working in an industrial environment and an ability to relate to all levels of people is important.

Interested and qualified applicants should forward their résumé and salary requirements to:

**E. R. SQUIBB & SONS INC.
Department PHD
Box 191**

New Brunswick, N.J. 08903

An Equal Opportunity Employer, M/F



**APPLICATIONS BEING ACCEPTED
FOR
PRESIDENT OF HEALTH UNIVERSITY**

A senior individual, recognized nationally as a proven leader in the field of health sciences, with experience in health education, management and long range planning is being sought for the position of the President of the Uniformed Services University of the Health Sciences, an agency of the Department of Defense. The University, established in 1972, has already developed an outstanding School of Medicine. A new President is being sought to provide continuing strong leadership to enable the University to become a school of great distinction in both teaching and research, with the goal of providing the highest quality of professional leadership for the total health care delivery system of the Uniformed Services of the country. The candidates' qualifications should include the following:

Ability to work with federal agencies involved in providing health support, particularly Congressional and Executive bodies;

An understanding of and an appreciation for health problems relating to the military services;

The ability to maintain strong and effective relationships with other federal as well as civilian health agencies; and

Good management ability in dealing with the faculty, staff and student body of the University.

Interested individuals should forward curriculum vitae to the Board of Regents, Uniformed Services University of the Health Sciences, 6917 Arlington Road, Bethesda, Maryland, 20014

The University is an Equal Opportunity Employer.

**... PHYSICAL-ORGANIC CHEMIST
... CELL BIOLOGIST**

At the NASA Johnson Space Center, a bio-processing research group is seeking to identify analytical or preparative procedures which may be facilitated by conduct in space.

Techniques for preparation of pharmaceutically useful substances will be examined to determine benefits to be derived by exploring environmental parameters such as weightlessness or high vacuum. Separatory and synthetic procedures will be considered and applied to both cellular and macromolecular materials.

A physical-organic chemist and a cell biologist are required, at the PhD level or equivalent. Some post-doctoral or industrial experience in the pharmaceutical field is highly desirable.

For immediate evaluation, send your detailed resume or Federal application (Form SF-171) to:

Personnel Office—Code AH-2
NASA-Johnson Space Center
Houston, TX 77058

[NASA is an equal opportunity employer]

**CANCER
INSTITUTE—
MELBOURNE**

**PETER MAC
CALLUM CLINIC**

**Scientific
Officer
Grade 3**

Applications are invited for the position of Scientific Officer, Grade 3, in the recently formed clinical immunology and immunogenetics unit recently established at the Cancer Institute to investigate the change in the immunological status of cancer patients undergoing treatment.

The unit is seen as the investigational base from which to deploy rationally laboratory techniques in the immunological approach to the therapy of cancer and explore and devise ways for the diagnosis and monitoring of cancer.

The applicant should be a science graduate with extensive experience in the techniques of cellular immunology relating to tumour or transplantation immunity.

Duties will be to develop, perform and critically assess in vitro tests of tumour associated cellular immunity with potential application in the diagnosis, classification and monitoring of human malignant disease and to determine the reliability, specificity and application of such tests in the field of human cancer.

Salary will be in the range of \$A16,172 to \$A18,278 per annum depending on qualifications and experience and terms and conditions of service will be in accordance with the hospital scientists determination. Other conditions include superannuation, long service leave, sick and recreational leave.

An overseas appointee will be granted economy class fares for himself and dependent family, together with an allowance of up to \$A600 for self and dependent spouse and \$A200 per each dependent child for removal of furniture and personal effects.

Further information is available from the Medical Director, Dr. P.L.T. Ilbery.

Applications in writing giving detailed history of qualifications and experience should be addressed to the Senior Personnel Officer, Peter Mac Callum Clinic, 481 Little Lonsdale Street, Melbourne, Victoria, 3000. Australia.

POSITIONS OPEN

PHARMACOLOGY POSITIONS. Organic-analytical chemist with experience in GC/MS/computer techniques, especially mass spectra interpretation and structural determination, to work with interdisciplinary group at the postdoctoral or junior faculty level. Basic science department of New York City medical school. Salary commensurate with experience and training. Please send curriculum vitae to: **Box 64, SCIENCE.**

An Equal Opportunity Employer

Two positions for **PHYCOLOGISTS** to work on the ecology of coral reef algae, one at postdoctoral and one at predoctoral level. A minimum of 24 months funding is available. Postdoctoral worker should have experience with tropical algae. Studies would be on seasonality of algal population dynamics, distribution of algae, algae/herbivore interactions at Smithsonian Tropical Research Institute's (STRI) Galeta Marine Lab, Caribbean coast of Panama. Application deadline 31 March 1977. Positions commence 1 July 1977. Send curriculum vitae and names of three referees to **Marine Coordinator, Environmental Sciences Program, Smithsonian Tropical Research Institute, Box 2072, Balboa, Canal Zone, Panama.** STRI is an Equal Opportunity Employer.

PHYSIOLOGIST. The Department of Physiology in Harvard Medical School is seeking a staff member at the assistant or associate professor level, whose research interest is membrane biophysics, preferably ion transport in red blood cells, other isolated cells, or epithelia. Applicants should have considerable experience in teaching human physiology. Send résumé to **Chairman, Search Committee, Department of Physiology, 25 Shattuck Street, Boston, Mass. 02115.** Harvard University is an Equal Opportunity Employer.

TWO POSITIONS ANTICIPATED

Primary competence in:

- 1) Pathology-Histology-Biotechniques.
- 2) Neuroscience.

Ph.D. required, preferably from a medical school. Send résumé to:

**Dr. D. B. Linden, Chairman
Department of Biology
Kean College of New Jersey
Union, N.J. 07083**

An Equal Opportunity Employer

THREE POSITIONS, VIRGINIA COMMONWEALTH UNIVERSITY: (i) **ichthyologist** to teach biology of the fishes, aquatic ecology, general biology, and develop a research program. Ph.D. required; (ii) **microbiologist, assistant professor** to teach medical microbiology and course in speciality. Ph.D. required with research interests in virology or immunology; and (iii) **anatomist, instructor** (nontenurable) to teach anatomy and physiology to nursing and other health science students. Master's degree with teaching experience required. Applicants should send curriculum vitae and list of references to **Dr. Lewis C. Goldstein, Biology Department, Virginia Commonwealth University, Richmond, Virginia 23284.**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL APPOINTMENTS in the field of molecular virology are available for scientifically aggressive investigators interested in participating in an intensive study of the possible involvement of RNA tumor viruses in radiation carcinogenesis in mice. Experience in molecular hybridization and/or radioimmunoassays is required.

Reply with résumé to: **Ronald A. Johns, Argonne National Laboratory, Box VO, 9700 South Cass Avenue, Argonne, Ill. 60439.** An Equal Opportunity Employer, M/F.

POSTDOCTORAL POSITION in bioenergetics and membrane transport in bacteria. Available in summer or fall 1977. Send curriculum vitae and names of three references to: **Dr. Barry P. Rosen, Department of Biochemistry, University of Maryland School of Medicine, Baltimore, Md. 21201.**

An Equal Opportunity Employer

POSITIONS OPEN

POSTDOCTORAL POSITION

Available immediately. Recent Ph.D. in biochemistry or microbiology for study of mechanism of bacterial energy conservation. Familiarity with enzyme purification or membrane or mutant systems desirable. One-year appointment, renewable. Stipend: \$10,000 for first year. Send curriculum vitae and names of three references to **Dr. Daniel DerVartanian, Department of Biochemistry, Boyd Graduate Studies Research Center, University of Georgia, Athens, Georgia 30602.** The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Research in excellently equipped laboratory. (i) Regulation of gene expression of arginine biosynthetic regulon of *Escherichia coli* in vitro transcription, translation; plasmids; RNA and DNA sequence determination; study of interaction of repressor, corepressor, and RNA polymerase with control region. (ii) RNA tumor virology, development of in vitro studies of transcription, translation, and regulation. Send curriculum vitae to

**Dr. Eric James
Department of Chemistry
University of South Carolina
Columbia, S.C. 29208**

The University of South Carolina is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE IN PLANT PHYSIOLOGY-BIOCHEMISTRY

The Department of Botany and Plant Pathology announces a position for a postdoctoral research associate, available on or before 15 October 1977, on a project concerning the biochemistry and physiology of gibberellins. More specifically, the appointee will conduct investigations on the biosynthesis of gibberellins and gibberellin precursors, and the regulation thereof, in organelles, particularly chloroplasts. The appointment will be on a 12-month basis at an annual salary rate of \$12,000, and will be for a minimum duration of 1 year. Reappointment for a second year will be contingent upon performance and continued availability of funds. A Ph.D. degree in plant physiology or biochemistry is required and preference will be given to applicants who have experience in techniques of organelle isolation and enzyme assays directly relevant to the project.

Oregon State University subscribes to a policy of active recruitment of women and ethnic minority persons and invites all interested and qualified persons to apply. Applications and inquiries should be addressed to:

**Dr. Thomas C. Moore
Department of Botany and Plant Pathology
Oregon State University
Corvallis, Oregon 97331**

Applications should include a curriculum vitae, reprints of research papers, two letters of recommendation, and any other information considered pertinent by the applicant.

QUALITY CONTROL MANAGER AND IMMUNO PRODUCTION MANAGER

Syva is a dynamic young company in the medical-diagnostic field, located in the San Francisco Bay area near Stanford University. Our rapid expansion and many new products have created a need for two key technical positions: quality control manager and immuno production manager. The successful applicants must have a comprehensive knowledge of good manufacturing practices in an FDA-controlled operation. Both positions require a B.S. in chemistry and 3 to 5 years of related supervisory experience in the medical diagnostic or pharmaceutical industry.

To apply for this position, please send résumé to **Syva Company Employment Office, 3180 Porter Drive, Palo Alto, California 94304.** We are an Equal Opportunity Employer.



POSITIONS OPEN

THE UNIVERSITY OF MANITOBA

Invites applications for the position of **PROFESSOR AND HEAD** of the Department of Earth Sciences. Currently there are 15 faculty members in the department which offers undergraduate and graduate programs, and the laboratories and facilities provide a stimulating environment for research and teaching. Salary will be appropriate to the qualifications of the appointee. The floor at present for full professors is C\$25,560.

Applications should be made as soon as possible, with a deadline of 15 May 1977, giving curriculum vitae, publication list, and the names of three references to:

**Dr. R. D. Connor
Dean of Science
University of Manitoba
Winnipeg, Manitoba, R3T 2N2
Canada**

The Psychology Department of Concordia University, Loyola Campus, invites applications for several **POSITIONS:**

- 1) One-year visiting appointment to teach social and developmental psychology, and
- 2) Appointments in the areas of clinical psychology, experimental and field methods, statistics.

All positions are at the rank of assistant professor. Salaries are competitive. Deadline for applications: 1 April 1977, or when positions are filled. Applications should be sent to: **Dr. H. Bauer, Personnel Committee, Concordia University, Loyola Campus, 7141 Sherbrooke West, Montreal, Quebec H4B 1R6, Canada.**

PULMONARY PHYSIOLOGY RESEARCH/TRAINING

Research and graduate position available in field of mammalian pulmonary physiology with adjunct professorship of appropriate rank in the University of California, Irvine. Collaborative research conducting physiologic studies in animals exposed to airborne materials of environmental/occupational interest. Requires Ph.D. in physiology or related field and 2 years of postdoctoral research, preferably with pulmonary measurements in laboratory animals. Preference given applicants experienced in inhalation toxicology and published independent work. Research site at Toxic Hazards Research Unit, Wright-Patterson Air Force Base, Dayton, Ohio; opportunity to participate in training of graduate students of University of California, Irvine, and other campuses. Closing date for application is 4 April 1977. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Submit complete curriculum vitae and names of at least three references to: **Dr. J. D. MacEwen, University of California, Irvine, Toxic Hazards Research Unit, Overlook Branch, P.O. Box 3067, Dayton, Ohio 45431.**

RESEARCH ASSOCIATE

Ph.D. with experience in radiation and chemical carcinogenesis using in vitro cell assay systems. Strong background in radiation biology essential. Position to begin 1 January 1978. Send credentials, reprints, and three letters of reference to: **Dr. Eric J. Hall, Radiological Research Laboratory, College of Physicians and Surgeons, Columbia University, 630 West 168 Street, New York, N.Y. 10032.** Deadline for receipt of applications is 15 April 1977. *An Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE-BIOCHEMISTRY

Applications are invited for a research position in the Division of Orthopedic Surgery at Stanford University School of Medicine. Preferred qualifications include a Ph.D. degree with interest in biochemistry related to connective tissue. Submit résumé to: **Dr. David Schurman, Division of Orthopedic Surgery, 300 Pasteur Drive, Stanford, California, 94305.**

SENIOR SOLAR ENERGY RESEARCH ENGINEER to conduct and manage applied research in solar energy, energy conservation, energy storage, related areas, at Desert Research Institute Energy Systems Laboratory, Boulder City, Nevada. Requires M.S., Ph.D., or equivalent degree in mechanical or chemical engineering, and substantial experience in solar energy systems development. Salary: approximately \$25,000; application deadline: 31 March 1977. Send résumé to **Dr. Michael C. Noland, c/o Personnel Office, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506.** An Equal Opportunity/Affirmative Action Employer.

ORNITHOLOGIST

The Terrestrial Ecosystems Department of the Ecological Sciences Division, NUS Corporation has an immediate opening for a terrestrial ecologist, range management specialist or wildlife biologist with expertise in ornithology. Primary responsibilities include avifauna inventories throughout the U.S., impact assessments, the preparation of reports, and project management. Send resume, list of publications, and the names and addresses of three references to:

Mr. Paul V. Morgan
Vice President and
General Manager
Ecological Sciences Division



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE FOOD AND DRUG ADMINISTRATION BUREAU OF FOODS WASHINGTON, D.C.

SCIENTIFIC POSITIONS: Openings for **pathologists** with a degree in veterinary medicine and postgraduate training in tissue pathology to fill the position of petition review pathologist.

Experience in the practice of pathology is desirable. Principle responsibilities will be the review of scientific data contained in petitions filed for food additive, color additive, investigational new animal drug applications, Generally Recognized as Safe (GRAS) petitions, contaminant data review, and the like. Special emphasis will be on the gross and histopathology findings with procurement and review of slides when appropriate. These activities will consume approximately two-thirds of the professional time; one-third will be concerned with participation in the in-house toxicologic-pathology program involving gross necropsies, histopathology study, and preparation of pathology reports.

Salary: \$20,442 (GS-12) to \$24,308 (GS-13) per annum depending upon qualifications.

U.S. CITIZENSHIP REQUIRED.

Send SF-171 (Personal Qualifications Statement) or curriculum vitae, and bibliography, transcript or listing of college and university courses to:

DHEW/Food and Drug Administration
Division of Personnel Management,
Room 1825
Personnel Operations Branch (HFA-410)
200 C Street, SW
Washington, D.C. 20204
Attn: C. J. Boswell

This is a Civil Service position.
FDA/An Equal Opportunity Employer

Geophysicist/Physical Oceanographer

GS-16, \$39,600

Arctic and Earth Sciences Division Office of Naval Research

Director, Arctic and Field Project Programs. Has responsibility for developing, implementing, administering and coordinating ONR's contract research programs in the Arctic and several other field projects concerned with geophysics of the environment. Covers a wide spectrum of scientific disciplines including physical oceanography, solid earth geophysics, air-ice and sea-ice physics, ionospheric and atmospheric geophysics.

Education: PhD or equivalent research background in geophysics and oceanography.

Experience: Experience managing a major multidisciplinary program, ability to effectively interact with diverse groups, recognized scientific stature and evidence of successful project officer experience equivalent to that of Chief Scientist on major geophysical or oceanographic experiments. Interested candidates should send personal qualifications statement, SF-171 or detailed resume, including publications and references by 12 March 1977 to:

Office of Naval Research
Director of Civilian Personnel
Code 7212 (Ann. No. 77-01)
Arlington, Virginia 22217

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SUMMER TERM TEACHING POSITIONS IN BOTANY AT OREGON STATE UNIVERSITY

The following teaching positions are available for summer term 1977:

Position 1

Bot 201-202: General Botany: 21 June to 14 July; 18 July to 11 August. Lecture and laboratory on: phylogenetic survey of the plant kingdom, morphology; structure and physiology of seed plants.

Position 2

Bot 451: Plant Disease Diagnosis: 21 June to 12 August. Field trips and laboratory on plant disease identification and control. For advanced undergraduate and graduate students.

Position 3

Bot 521T: Taxonomy and Field Botany: 21 June to 12 August. Identification of flowering plants of the Pacific Slope. Lecture, laboratory, and field trips to the Coast and Cascade Mountains. For high school teachers.

Bot 540T: Plant Ecology: 21 June to 12 August. Interrelationships among plants, plant communities, and the environment. For high school teachers.

Positions 1 and 3 could be divided, each person having responsibility for only one course, if necessary. All positions are for summer term only.

Qualifications include: completion (or near completion) of the Ph.D. degree; prior college-level teaching experience in equivalent course(s); and, in the cases of Bot 451, 521T, and 540T, detailed familiarity with plant diseases, flora, and plant ecology, respectively, of the Pacific Northwest and local region. Salaries are negotiable.

Address inquiries and applications (including curriculum vitae and two letters of recommendation) to:

Dr. Thomas C. Moore, Chairman
Department of Botany and Plant Pathology
Oregon State University
Corvallis, Oregon 97331

Oregon State University subscribes to a policy of active recruitment of women and ethnic minority persons and invites all interested and qualified persons to apply.

SENIOR TOXICOLOGIST

Candidates should have a PhD in Pharmacology or an ancillary field and a high degree of interest in toxicological testing of potential new drugs. Duties include planning, conducting, reporting and supervising projects as well as representation on research teams. Industrial experience is an asset. Our well equipped laboratories are located in our modern facilities 15 miles west of Philadelphia. Salary commensurate with training and experience; company benefits and relocation policy most liberal. Please submit curriculum vitae to:

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POSITIONS OPEN

RESEARCH ASSOCIATES: Two positions available in the area of endocrine regulation of calcium metabolism. (i) Requires M.D. interested in clinical and basic studies of parathyroid hormone, vitamin D and calcitonin in newborn and/or older children and adults. (ii) Requires Ph.D. or M.D. interested in basic studies involving calcium regulation by parathyroid hormone and vitamin D. Both positions are presently open. Starting salary is negotiable. Send résumé to: **Calcium Research Group, Constantine S. Anast, M.D., Department of Child Health; Leonard R. Forte, Ph.D., Department of Pharmacology, School of Medicine, University of Missouri, Columbia, Missouri 65201.**

SECTION HEADS

PATHOLOGY

Veterinary Pathologist—ACVP-certified or Board-eligible with experience and interest in large-scale toxicology programs. Duties involve the direction of a 14-person staff including 2 pathologists; examination of tissues from primates, dogs, rodents, and other research animals; participation in multidisciplinary projects with three other sections in pharmacology and toxicology; and the development of new research programs.

TOXICOLOGY

Toxicologist—To participate in ongoing programs, develop new programs, interact with other groups, and provide leadership for a growing section of 20 persons. Ph.D. in toxicology or pharmacology preferred. Strong experience and interest in toxicological research required. Sound technical evaluation and writing skills essential, personal leadership qualities important.

Please send résumé, references, and salary history in confidence to: **Martin N. Schuler, Manager, Personnel Operations,**

MIDWEST RESEARCH INSTITUTE
425 Volker Boulevard
Kansas City, Missouri 64110

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SHORT-TERM VISITING PROFESSORSHIP IN PLANT PHYSIOLOGY-BIOCHEMISTRY

An invitation is extended for an experienced investigator to collaborate on investigations of biosynthesis of gibberellins and gibberellin precursors, and the regulation thereof, in chloroplasts. Appointment can be arranged for 2 to 4 months any time between 1 March and 30 September 1977. A Ph.D. degree in plant physiology or biochemistry and postdoctoral experience at a professional rank in research directly relevant to the project are required. Salary is negotiable.

Oregon State University subscribes to a policy of active recruitment of women and ethnic minority persons and invites all interested and qualified persons to apply. Applications and inquiries should be addressed to:

Dr. Thomas C. Moore
Department of Botany and Plant Pathology
Oregon State University
Corvallis, Oregon 97331

Applications should include a curriculum vitae, reprints of selected research papers, and any other information considered pertinent by the applicant.

TUMOR IMMUNOLOGY RESEARCH ASSOCIATE: Ph.D. with experience in either cellular or humoral immunology preferably with experience in tumor studies. To participate in group project on animal and human cancer immunotherapy project. Salary \$10,000 to \$15,000 depending on experience. Send curriculum vitae and the names of three references to: **Dr. J. Stephen Haskill, Department of Basic and Clinical Immunology and Microbiology, Medical University of South Carolina, 80 Barre Street, Charleston, South Carolina 29401.** The position is available immediately. *The University of South Carolina is an Equal Opportunity Employer.*

VETERINARIAN with ACLAM accreditation or 5 years experience needed to manage research program. Responsibilities include: procurement, housing, and experimental utilization of small laboratory animals in an AAALAC-accredited facility; and participation in a chemical carcinogenesis program to include experimental use and surgical manipulation of athymic mice. Send curriculum vitae to: **Microbiological Associates, Personnel, 5221 River Road, Bethesda, Md. 20016.** *Equal Opportunity Employer, M/F/H.*

POSITIONS OPEN

The Midland Macromolecular Institute (MMI) invites applications for a **SENIOR FACULTY POSITION.** Duties will involve research in **molecular oncology** and teaching in either molecular biology, biochemistry, organic chemistry, or related fields on the graduate and postdoctoral level. The position is fully funded and carries with it funds for three postdoctoral fellows, equipment, and so forth. Prospective candidates with qualifications for the full professor level and proven ability to carry out vigorous and imaginative research program should contact the **Search Committee, Molecular Oncology, Midland Macromolecular Institute, 1910 West St. Andrews Road, Midland, Michigan 48640,** for details before submitting applications. **Telephone: 517-631-9453.** *MMI is an Equal Opportunity/Affirmative Action Employer.*

OPEN: VICE PRESIDENT FOR ACADEMIC AFFAIRS

Small competency-based, commuter, upper-division university near Chicago is in search of a vice president for academic affairs. Persons with the doctorate, teaching, research, and administration experience are encouraged to apply by 15 March 1977 to **Dr. Clara Anthony, Vice President for Academic Affairs Search Committee, c/o President's Office, Governors State University, Park Forest South, Ill. 60466; telephone: 312-534-5000.** *Affirmative Action/Equal Opportunity Employer.*

ZOOLOGIST-ANATOMIST

A biology department in southeast Pennsylvania expects a September 1977 vacancy for a zoologist with a competence in human anatomy and physiology to teach undergraduate courses for nursing and physical education students. Also ability to teach other zoological courses. Ph.D. in zoology required. Assistant professorship with salary dependent upon qualifications and experience. Contact **Robert Bernhardt, Department of Biology, West Chester State College, West Chester, Pa. 19380** by 4 April 1977. **Telephone: 215-436-2538.**

An Equal Opportunity/Affirmative Action Employer

TRAINING PROGRAMS

GRADUATE STIPENDS

Ph.D. Training Program in Physiology and Biophysics
Rush Graduate School

Modern physiology seeks to analyze the function of animal systems quantitatively using the techniques and approaches of chemistry, physics, engineering, and applied mathematics. Most of today's leaders of research have started their careers as physical scientists and continue to approach physiological problems from that perspective. Applications are presently being considered for a training program stressing an independent approach to the acquisition of knowledge in which directed tutorial study provides the basic framework. Stipend support, tuition fellowships and scholarships, equipment, space, and travel funds are available. Address correspondence to **Dr. C. Schauf, Director, Division of Physiology, Rush University, 1750 West Harrison, Chicago, Illinois 60612.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP available on 1 May 1977 for 2 to 3 years. Projects involve Mössbauer and EPR studies on iron-containing proteins. Good background in Mössbauer and/or EPR spectroscopy is required. Send curriculum vitae, bibliography, and other appropriate information before 18 March 1977 to: **Dr. E. Münck, Freshwater Biological Institute, University of Minnesota, P.O. Box 100, Navarre, Minn. 55392.** *The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIP: Three positions are available in the Center for Reproductive Sciences at Columbia University College of Physicians and Surgeons for training in primate neuroendocrinology, gametogenesis and gamete biochemistry, pituitary receptors, or mammalian meiotic cytogenetics. Salary \$10,000 to \$13,200 depending on experience. M.D. or Ph.D. required. Must be U.S. citizen or have permanent visa. *Equal Opportunity Employer.* Contact **Dr. G. Jagiello, Center for Reproductive Sciences, Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.**

REQUESTS

The Scientific Advisory Committee of a proposed biological effects of pollutants on marine organisms program to be considered by the Office for the International Decade of Ocean Exploration, National Science Foundation, invites scientists interested in participating in an integrated multidisciplinary program to submit **LETTERS OF INTENT** outlining their proposed research. The objective of the program is to correlate biochemical and morphological changes in marine animals with stresses by organic pollutants. The long-range goal is to use these biological indices to measure the health of oceanic ecosystems. The letters of intent will be evaluated by the Scientific Advisory Committee within the framework of a comprehensive program with the above goal. Endorsement by the Scientific Advisory Committee neither ensures nor implies funding. All final proposals will be evaluated by the National Science Foundation.

The letter of intent should not exceed five pages. Brief but explicit description of proposed project including objectives, procedures, rationale, and tentative budgets should be included, but a detailed budget justification is not necessary at this time. In addition to the letter, a curriculum vitae of the principal investigators will be helpful. To be considered in the 1978 proposal, the letters must be received prior to 15 March 1977 by: **Dr. C. S. Giam, Chemistry Department, Texas A & M University, College Station, Texas 77843.**

CONFERENCE

Conference on
BIORHYTHMS AND AGING
13 to 15 April 1977

at
Happy Dolphin Inn, St. Petersburg Beach, Florida
Sponsored by



Eckerd College, and Veterans Administration Center, Bay Pines, Florida. Requests for information concerning registration and accommodations should be sent to: **Dr. William Roess, Chairman, Natural Sciences Collegium, Eckerd College, St. Petersburg, Florida 33733.**

Mayo Clinic-Mayo Foundation, Rochester, Minnesota, announces a **Conference on the Chemistry and Biology of Thrombin**, 31 March to 1 April 1977. Topics include: thrombin production, isolation, properties; structure of thrombin and related serine proteases; mechanism of thrombin catalysis and specificity of thrombin; inhibition of thrombin with both natural and synthetic inhibitors; interaction of thrombin with natural protein substrates; and thrombin interactions on a cellular level. Registration fee is \$100. For further information, contact **K. G. Mann, M.D., Hematology Research, Mayo Clinic, Rochester, Minnesota 55901.** **Telephone: 507-282-2511, extension 8275.**

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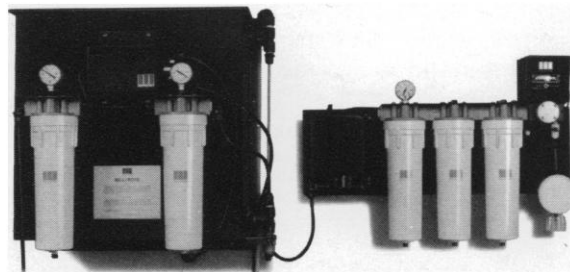
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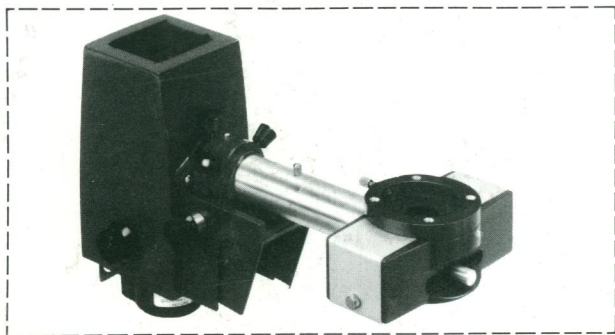
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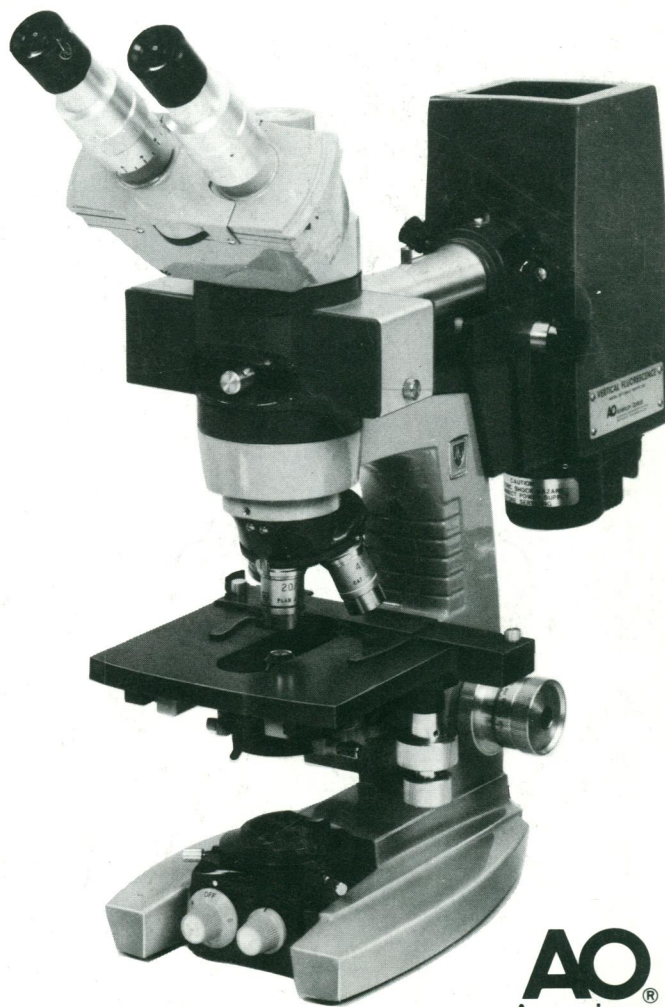
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