

(Continued from page 428)

RECENT DEATHS

Nikaan B. Andersen, 46; professor of anesthesiology, Case Western Reserve University; 29 June.

Pyotr K. Anokhin, 76; former director, Institute of Physiology, Academy of Medical Sciences, U.S.S.R.; 6 March.

Nelson S. Fisk, 59; associate professor of civil engineering, School of Engineering and Applied Science, Columbia University; 2 October 1973.

Samuel Herrick, Jr., 62; professor of astronomy and engineering, University of California, Los Angeles; 21 March.

Herman E. Hilleboe, 68; former assistant U.S. surgeon general; 11 April.

George D. Humphrey, 76; former president, University of Wyoming and Mississippi State College; 10 September 1973.

Robert H. Ivy, 93; professor emeritus of plastic surgery and maxillofacial surgery, University of Pennsylvania Medical and Dental Schools; 12 June.

Robert R. Kaufmann, 62; former professor of metallurgy, Massachusetts Institute of Technology; 7 June.

Raymond E. Manchester, 90; former chairman, mathematics department, Kent State University; 14 April.

Mahafud Nazario, 42; associate professor of biochemistry and molecular biology, University of Kansas Medical Center; 1 June.

Howard P. Parker, 69; former associate professor of obstetrics and gynecology, George Washington University; 8 July.

Patrick E. Pellecchia, 52; associate professor of community medicine, Temple University; 29 May.

Robert F. Sittler, 45; professor of geology, Kent State University; 5 June.

David Spiro, 52; chairman, pathology department, New York Medical College; 5 July.

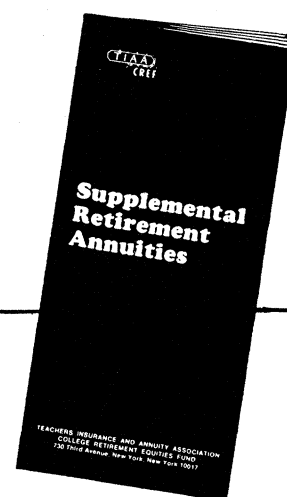
C. George Tedeschi, 69; clinical professor of pathology, Boston University School of Medicine; 26 June.

Wayne Thornburg, 55; former associate professor of cytology, biochemistry, and biology, Dartmouth Medical School and College; 21 May.

William C. Wheeler, 46; former professor of microbiology, Johns Hopkins University; 22 March.

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Replies to blind ads should be addressed as follows:

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Washington, D.C. 20005

POSITIONS WANTED

Anesthesiologist, M.D., 47 (experience in research, teaching, and administration). Present interest in study of systems analysis methods and applications to operating room performance of anesthesiologist; seeks position at chairman level in medical school. Box 444, SCIENCE. 12/6; 1/10

Biochemist, M.S. Teaching experience in general and biochemistry, research experience with nucleic acids and bacterial mutants. Innovative and adaptable, eager to learn. Strong background in chemistry (B.S. chemistry). Desire teaching, industrial, or clinical position. Available January 1975. Box 484, SCIENCE. X

Biostatistician, M.S., M.P.H. Desires epidemiological, sociological, clinical traits research. Computer-oriented. New York metropolitan area. Box 485, SCIENCE. X

Cellular Immunologist, M.D. Board certified internist, experienced investigator, numerous publications, seeks responsible position in clinical/research program. Box 486, SCIENCE. X

Experimental Psychologist, M.A. Female. Seeks research assistant position in the Pittsburgh, Pa., area. Interested in animal conditioning, learning, and behavior. Two years of research experience in chemical/pharmaceutical industry. Box 487, SCIENCE. X

Immunobiologist/Anatomist, Ph.D. Human immunogenetics, cellular immunology. Basic and clinical research experience. Seeks academic appointment with teaching and research opportunities. Box 473, SCIENCE. 11/1

Immunologist, Ph.D. 1968. Six years of industrial experience. Protein fractionation, antigen isolation, antibody preparation, antiserum production, and product development in clinical test. Industry preferred, consider business opportunity. Box 488, SCIENCE. X

Immunologist, Ph.D. Main interests: arthritis, inflammation, and anti-inflammatory agents. Publications. Seeks industrial or academic position in West, Midwest, South. Box 489, SCIENCE. X

Interdisciplinary, Biophysicist, Ph.D. 1963. Desires situation in an interdisciplinary science program. Publications in origin of life and cancer research. Many years of physics teaching and recently environmental courses. Can add wide experiences in biology and physics to program. Box 490, SCIENCE. 11/8

Radiation Biologists/Biochemical Geneticists, Ph.D. in 1973 in radiation biology. Two-year postdoctoral in biochemical genetics with emphasis on the enzymology of enzyme complexes. Tissue culture. Thirteen publications. Seek research/teaching position. Available July 1975. No geographical preference. Box 493, SCIENCE. X

POSITIONS WANTED

Invertebrate Zoologist-Histologist-Scientific Illustrator, 29. B.S. Zoology, M.S. Physiology, M.S. Marine Science (to be completed). Skilled in histological technique, TEM, scientific illustration, benthic microfauna, and deep-sea sampling technique. Publications. Desire position with an active laboratory where some or all of my skills may be utilized. Box 491, SCIENCE. X

Lipid Biochemist, Ph.D. Eight years of experience in neurochemistry, arteriosclerosis, and steroids. Seeks teaching, research position. Box 492, SCIENCE. X

Membrane Physiology/Biophysics, Ph.D. 1965. Postdoctorals here and abroad; presently on medical school faculty. Research: active transport and excitation (nerve and muscle). Also interested in junctional physiology. Publications in well-reviewed journals. Desire faculty position permitting continuing research and teaching. Some preference for Northeast, but consider particular departmental ambience of greater importance. Box 450, SCIENCE. 11/1

Reproductive Endocrine Biologist, Ph.D. 1958. Seeks chairmanship in basic science department in Central East or Northeast. Distinguished background in teaching and research. Box 468, SCIENCE. X

Research Biochemical Geneticist, Ph.D., experience in enzymology, nucleic acid biochemistry, and diagnosis and counseling involved in metabolic and chromosomal disease beginning June 1975. Box 494, SCIENCE. X

Virologist. Energetic young man in prime of life seeking challenging research (or research/teaching) position dealing with oncogenic RNA and/or DNA viruses; slow viruses considered; 2 years of predoctoral and 4 years of postdoctoral experience (classical and molecular) with murine, rat, and primate oncornaviruses. Available January through May 1975. Box 495, SCIENCE. X

POSITIONS OPEN

ACADEMIC POSITION

One immediate opening for a Ph.D. chemist, preferably in the area of analytical chemistry with research interest in biomedical applications. Duties include graduate and undergraduate teaching and establishing a vigorous research program. Rank open. This position has been created through a grant from the Minority Schools Biomedical Support Program of the National Institutes of Health. Successful applicants will be required to interact strongly with minority students in this program. Send résumé to: **Dr. Ralph G. Wilkins, Head, Department of Chemistry, Box 3C, New Mexico State University, Las Cruces, New Mexico 88003.** *New Mexico State University is an equal opportunity and affirmative action employer.*

ASSISTANT PROFESSOR TUFTS UNIVERSITY BIOLOGY DEPARTMENT

Biochemist with research interest (in order of preference): in (i) environmental problems such as primary productivity or the enzymology of nitrogen fixation or (ii) developmental biology such as regulatory mechanisms in eukaryotes or hormone-receptor interactions. Teaching duties will include sharing the instruction in a biochemistry course for advanced undergraduates and graduate students and teaching a course in areas of special interest. We seek to fill the position September 1975.

Send curriculum vitae, reprints, and arrange to have three letters of recommendation sent to: **Dr. Saul Slapikoff, Department of Biology, Tufts University, Medford, Mass. 02155.**

Application deadline: 10 January 1975.
Tufts University is an Equal Opportunity, Affirmative Action Employer. Applicants from women and minority-group members are encouraged.

NEW YORK STATE VETERINARY COLLEGE A STATUTORY COLLEGE OF THE STATE UNIVERSITY AT CORNELL UNIVERSITY IS SEEKING A CHAIRMAN OF THE DEPARTMENT OF PATHOLOGY

Applications and nominations are invited for the position of Chairman, Department of Pathology, available 1 February 1974. The applicant should have a veterinary degree with advanced training and experience in veterinary pathology. The chairman will be responsible for the leadership of a large and diversified department. Salary and rank are negotiable and to be commensurate with training and experience. Applicants should direct their correspondence to **Dr. James H. Gillespie, Chairman, Search Committee, New York State Veterinary College, Cornell University, Ithaca, N.Y. 14853.**

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POSITIONS OPEN

ANTHROPOLOGY

Scarborough College, University of Toronto, expects to hire a Physical Anthropologist—subject to the availability of funds—at junior level commencing 1 July 1975, with interest in some combination of the following specialties: medical anthropology, nutrition, psychobiology, ecology, and paleoanthropology. The teaching load will be two and a half courses, normally including graduate instruction which is carried out on the St. George Campus. Salaries are competitive. Please send inquiries and curriculum vitae to **Professor L. Tarshis, Chairman, Division of Social Sciences, Scarborough College, University of Toronto, West Hill, Ontario, Canada M1C 1A4.**

ASSISTANT PROFESSOR

Position available in the Department of Pharmacology for pharmacologist with research and teaching background in electrophysiology of CNS. Applicants (M.D. or Ph.D. required) should send curriculum vitae to: **Dr. Robert L. Volle, Department of Pharmacology, University of Connecticut Health Center, Farmington, Conn. 06032.** *Women and minorities welcomed. An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF ANATOMY THE UNIVERSITY OF NEW MEXICO SCHOOL OF MEDICINE

Recent Ph.D. and/or M.D. graduate with postdoctoral experience to conduct an independent research program in neuroendocrinology or related interests and to participate in teaching of Neurobiology and Gross Anatomy within a growing Health Sciences Center of the nonurban Southwest. Salary within University guidelines is related to qualifications. Send curriculum vitae, bibliography, and references to: **Dr. A. J. Ladman, Chairman, Department of Anatomy, The University of New Mexico School of Medicine, North Campus, Albuquerque, N.M. 87131.**

An equal opportunity/affirmative action employer

The Department of Biology, New Mexico State University, invites applications for a faculty position preferably in the areas of **microbiology or animal physiology**. Ph.D. required. Duties include both undergraduate and graduate teaching and establishment of a vigorous research program. Rank is open.

New Mexico State University is an equal opportunity, affirmative action employer and candidates from all races and ethnic backgrounds are encouraged to apply. Send curriculum vitae and names of three references to: **Dr. J. R. Zimmerman, Chairman, Department of Biology, Box 3AF, New Mexico State University, Las Cruces, New Mexico 88003.**

BIOLOGISTS

The Department of Biological Sciences of Union College, an *Equal Opportunity Employer with an Affirmative Action Program*, has two assistant professorships requiring the Ph.D. open in the fall of 1975. We seek (i) a zoologist with competence in neurology, the processing of information in neural systems, and behavior; (ii) a botanist with broad competence in plant morphology, anatomy, or systematics. Send résumé to: **R. Rappaport, Search Committee Chairman, Department of Biological Sciences, Union College, Schenectady, New York 12308.**

DEAN, SCHOOL OF SCIENCE PURDUE UNIVERSITY

Purdue University invites applications and nominations for the position of Dean of the School of Science. Candidates should be successful scientists with a record of administrative achievement. Correspondence concerning the position should be directed to: **Dr. Felix Haas, Provost, Purdue University, West Lafayette, Indiana 47907.**

Purdue University is an Equal Opportunity/Affirmative Action Employer

DEAN, GRADUATE SCHOOL UNIVERSITY OF LOUISVILLE

Applications and nominations are invited for the position of Dean, Graduate School. Responsibilities will include the continuance and development of traditional and interdisciplinary graduate programs at a high level of excellence. The Dean should be qualified for professional rank in one of the units of the University.

The University of Louisville is a state-supported, comprehensive, urban institution which awards approximately 40 percent of its degrees in graduate and graduate-professional areas. Current Graduate School enrollment is 2500.

Send nominations or applications with curriculum vitae to **Dr. Thomas H. Crawford, Chairman, Graduate Dean Search Committee, Department of Chemistry, University of Louisville, Louisville, Ky. 40208.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

BIOLOGY. Chairperson of Department of Biology, Tennessee Technological University. Qualifications: Ph.D. in one of the biological sciences; administrative, teaching, and research experience; orientation toward quantitative biology desirable. The Department currently has 15 faculty members representing a broad spectrum of specialties, about 40 graduate majors, and about 200 undergraduate majors. It is affiliated with the Tennessee Cooperative Fishery Unit and the Tech Aqua Biological Station on nearby Center Hill Lake. Degrees offered: M.S. in Biology, B.S. in Biology, B.S. in Wildlife Management. Apply to **Richard H. Fraser, Dean of Arts and Sciences, Tennessee Technological University, Cookeville, Tennessee 38501. An Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITIONS

Research-oriented individual for faculty position in physical anthropology or functional morphology. Teaching responsibilities include physical anthropology, primatology, and biomechanics/functional morphology at the graduate and undergraduate levels. Candidates must have Ph.D. degree in the area of physical anthropology and functional morphology with a minimum of 1 year of teaching experience. Preference will be given to individuals with demonstrated research abilities. Reply to: **Dr. M. M. Dewey, Chairman, Department of Anatomical Sciences, Health Sciences Center, State University of New York at Stony Brook, Stony Brook, New York 11794. An Affirmative Action/Equal Opportunity Employer**

GEOCHEMISTS

The Instituto de Química de la Universidad Central de Venezuela invites applications for one position of Organic Geochemist (Ph.D.), and one position of Geochemist (Ph.D.) for research and teaching on the basis of a 1-year contract, renewable. Establishing graduate geochemistry program and applied research. The salary range is \$14,300 to \$23,700, depending on qualifications. Send curriculum vitae to: **Director, Instituto de Química, Facultad de Ciencias, Universidad Central de Venezuela, Apartado 10098, Caracas, Venezuela.**

MANAGEMENT POSITION

Title: Assistant Director, California Primate Research Center, University of California, Davis. **Responsibilities:** Assumes all responsibilities of the Director in his absence. Participates in planning and operational decisions concerning scientific programs, personnel, and budgets. Responsible for all business and personnel management. Prepares annual operating budget and progress report. Direct supervisor of all support services. General responsibility for facility utilization, maintenance, renovation, and alteration. Functions as liaison officer with growing agencies and UC administration and faculty. Represents the Center to a wide variety of scientific and lay publics. **Qualifications:** Professional and/or academic degree in one of the health sciences. Previous experience administering federal and nonfederal medical research grants and contracts is essential. Must be familiar with the administrative organization of the various granting agencies and policies, procedures, and regulations pertaining to their programs. **Salary range:** \$18,000 to \$30,000, plus fringe benefits. Send résumé to: **Walter S. Tyler, Director, California Primate Research Center, University of California, Davis, California 95616. The University of California is an Equal Opportunity and an affirmative action employer. Applications from women and/or minorities are welcome.**

POSTDOCTORAL RESEARCH ASSOCIATE

The MSU/AEC Plant Research Laboratory seeks well-qualified candidates for **POSTDOCTORAL RESEARCH ASSOCIATE** positions. The PRL is an interdisciplinary research institute located on the Michigan State University campus, devoted to the physiology, biochemistry, and biophysics of plants. Current research areas include cell walls, membranes, microtubules; mechanisms of hormone formation and function; flowering; photobiology; energy and gas exchange via stomates; nitrogen and sulfur metabolism; enzyme regulation; and developmental patterning. Organisms used include mycoplasmas, thermophilic bacteria, blue-green algae, cellular slime molds, and mosses, in addition to flowering plants. Salaries start at \$9600 per year. Appointments are for 1 year starting 1 July 1975 or thereafter, renewable once. The number of appointments is dependent upon available funds with commitments to be made in spring 1975. For further information and application forms, please send a résumé to:

**Dr. Anton Lang, Director
Subject: Science Ad
MSU/AEC Plant Research Laboratory
Michigan State University
East Lansing, Mich. 48824**

Michigan State University is an equal opportunity employer.

1 NOVEMBER 1974

POSITIONS OPEN

DEPARTMENT HEAD, BOTANY

Required by Mississippi State University preferably 1 July 1975, or no later than 15 August. Twelve-month appointment. Ph.D., publications, and academic experience required. Preferred specialty aquatic or marine. Department grants B.S., M.S., and Ph.D. Send curriculum vitae and names of at least three references to: **L. C. Behr, Dean, Arts and Sciences, Box AS, Mississippi State, Starkville, Miss. 39762.**

An equal opportunity employer

HEMATOLOGIST OR GENETICIST: A research appointment equivalent to associate professor will be available January 1975 for an experienced hematologist or geneticist to conduct independent research on blood genetics in Kuala Lumpur, Malaysia, for a period of 2 years. Must also supervise one or two junior scientists. Applicants must have a Ph.D. or M.D. degree and proven research accomplishment. Travel and liberal overseas allowances. Send applications to: **Albert Rudnick, Ph.D., Hooper Foundation, University of California, San Francisco, Calif. 94143. An affirmative action/equal opportunity employer.**

DEPARTMENT OF MICROBIOLOGY UNIVERSITY OF CONNECTICUT HEALTH CENTER

Applications are invited for two faculty appointments to be made during the 1975-76 academic year, one at the level of associate professor or professor and the other at the assistant professor level. Preference will be given to individuals with research training and experience in animal virology. *Applications from women and members of minority groups are welcomed.* Inquiries should include a complete curriculum vitae and the names of three persons from whom recommendations can be solicited, and should be sent to **Lawrence Rothfield, Chairman, Department of Microbiology, University of Connecticut School of Medicine, Farmington, Connecticut 06032.**

An Equal Opportunity Employer

NEUROBIOLOGIST

Opening available in Department of Anatomy for a neuroscientist with postdoctoral experience in neurobiological research and neuroanatomy teaching. Must be able to teach effectively and develop an active and productive independent research program. Primary teaching responsibility will be neuroanatomy for medical, dental, and graduate students in an integrated curriculum, but some participation in other anatomical disciplines is possible. Rank and salary dependent on qualifications.

Applications from women and members of minority groups are welcomed. Apply to **Dr. S. J. Cooperstein, Department of Anatomy, University of Connecticut Health Center, Farmington Avenue, Farmington, Connecticut 06032.**

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UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE DEPARTMENT OF PATHOLOGY

In accordance with University principles of fair practice employment, applications are invited for one or more positions of **Assistant Professor** with major research interest in Immunopathology. Applicants preferred who are certified or eligible for certification in Pathology and must be interested in having hospital service responsibilities.

Applications, including curriculum vitae and three references, should be sent to **Dr. David T. Rowlands, Jr., Chairman, Department of Pathology, University of Pennsylvania, School of Medicine/G3, Philadelphia, Pa. 19174.**

PEDIATRIC SURGEON

University of California, Irvine, Department of Surgery is recruiting for a pediatric surgeon at the Assistant Professor level (in-residence). Must have completed training prerequisite to board certification in pediatric surgery. *Applications from qualified candidates are welcome; minorities and women are encouraged to apply.* Send curriculum vitae to **John E. Connolly, M.D., Chairman, Department of Surgery, University of California, Irvine, California 92664.**

UNIVERSITY OF ARIZONA FACULTY OPPORTUNITIES

Needed are two faculty members. Dynamic program in teaching, service, and research. Skills in primary medical care and community orientation. Assistant professor or higher, depending on qualifications. Send résumé to: **Herbert K. Abrams, M.D., Department of Family and Community Medicine, University of Arizona College of Medicine, Tucson, Arizona 85724.**

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POSITIONS OPEN

PATHOLOGIST AND TOXICOLOGIST

To fill an important position in a dynamic and growing contract research organization in New Iberia, Louisiana. Must have Ph.D. or D.V.M. Prior experience in Rat and Mouse Carcinogenicity Studies helpful. Will conduct studies in carcinogen bioassay field. Salary commensurate with education and experience. Excellent fringe benefits include 3 weeks' vacation each year, group life, hospitalization, and major medical insurance and retirement program. Send résumé to **Personnel Manager, Gulf South Research Institute, 8000 GSRI Avenue, Baton Rouge, Louisiana 70808.**

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FACULTY APPOINTMENTS IN BIOLOGICAL CHEMISTRY

The department has recently moved into new, enlarged, and well-equipped facilities and is embarked on a program of staff expansion. Two positions presently available are at the Assistant Professor rank but appointments may be made as Associate Professor, depending on experience. Duties involve teaching medical and graduate students. Applicants will be expected to develop independent research programs and supervise the training of Ph.D. candidates.

All applicants should have at least 2 to 3 years of postdoctoral training, proven research ability, and experience and interest in teaching biochemistry. In addition to fundamental research, excellent opportunities exist for collaboration with clinical colleagues on medically oriented problems. The department seeks individuals with research interests and experience in the following areas: (i) the nature and expression of eukaryotic genomes and (ii) immunochemistry concerned with the molecular events involved in the origin of diversity in antibody structure and function.

Applicants should send a résumé and a detailed outline of future research plans to **Dr. Harry Rudney, Director, Department of Biological Chemistry, College of Medicine, University of Cincinnati, Cincinnati, Ohio 45267.**

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National Research Council Canada
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RESEARCH ASSOCIATESHIPS 1975

For research in science and engineering in the following laboratories of the **NATIONAL RESEARCH COUNCIL OF CANADA:**

**Atlantic Regional Laboratory
Division of Biological Sciences
Division of Building Research
Division of Chemistry
Division of Mechanical Engineering
National Aeronautical Establishment
Division of Physics
Prairie Regional Laboratory
Radio and Electrical Engineering Division**

Beginning 1 April 1975, the National Research Council of Canada will offer Research Associateships tenable in its laboratories. These Associateships are intended to give promising young scientists and engineers an opportunity to work on challenging research problems in fields of interest to NRC as a stage in the development of their research careers.

Applicants should possess at least a Ph.D. in natural science or a Master's degree in an engineering field or expect to obtain the degree before taking up the award. Demonstrated ability to perform original research of high quality in the chosen field will be the main criterion used in selecting candidates and in considering extensions of their term.

While preference will be given to Canadians, the Associateships are open to nationals of other countries. Successful candidates must meet the requirements for entry to Canada.

Research Associates will be offered salaries and staff benefits comparable to those currently available to members of the regular staff of the National Research Council.

The initial award will be for a period of 1 year and may be renewed at intervals for a total period of up to 5 years.

An allowance will be provided toward the cost of travel between the place of residence at the time the appointment is made and the laboratory at which the Associateship is held. A similar allowance may be made for return travel on termination.

Applications must be made on special forms which may be obtained from the **Research Associates Office, National Research Council of Canada, Ottawa, Ontario, Canada K1A 0R6.** Applications and supporting documents should be received in Ottawa not later than **15 January 1975.**

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Brannon, 198 pp, \$8.50/2.95p

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Brannon (Ed), 360 pp, \$15.00/5.95p

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The Brookings Institution, ca 280 pp, \$13.50/4.95p

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Cicchetti and Jurewitz (Eds), 224 pp, \$14.00/5.50p

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NUCLEAR THEFT: Risks and Safeguards
Willrich and Taylor, 256 pp, \$13.50/4.95p

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Ballinger

17 Dunster Street, Cambridge, Mass. 02138

VETERINARY PATHOLOGIST

ICI United States is a subsidiary of one of the world's leading multi-national industrial companies. We are presently seeking a highly competent Veterinary Pathologist to join our growing pharmaceutical group.

The position requires a D.V.M. or a Ph.D. and a minimum of 3 years experience in Animal Pathology. Duties will include gross and microscopic evaluation of animals used in toxicological studies for new drug candidates. Will also participate as a member of a new drug team.

We offer an excellent salary and benefit package, relocation expenses to our convenient suburban location and a highly professional atmosphere with outstanding short-term growth prospects. Reply in complete confidence to: Mr. J. B. McEntire, ICI UNITED STATES, INC., Wilmington, Delaware 19899.

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ICI United States Inc.

BIOCHEMIST

(Post-Doctoral Fellow)

The **Lawrence Livermore Laboratory**, located in a rural San Francisco Bay Area community, has a post-doctoral opening for a Ph.D. (or equivalent M.D.) in biochemistry whose specialty is protein chemistry. You will isolate, purify and characterize serum apolipoproteins with particular emphasis on determination of amino acid sequence. The successful applicant will be knowledgeable either in lipoprotein biochemistry and chemistry, or in protein chemistry with emphasis on determination of protein structure. This appointment will be for one year with the possibility of renewal.

For further information, please send your curriculum vitae to:

Personnel Department
Lawrence
Livermore Laboratory
P.O. Box 808 (SC-114)
Livermore, CA 94550



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LAWRENCE LIVERMORE LABORATORY

POSITIONS OPEN

CHAIRPERSON OF BIOLOGY DEPARTMENT

Qualifications: Ph.D., at least 10 years of teaching experience, ability to exercise strong leadership for a developing biology department of 11 faculty members with 140 majors. Aside from majors, the department services physical science, physical education, and medical technology. Proposed programs are nursing and a Master of Arts in biology.

Rank: Professor.
Salary: Competitive (absolute minimum \$20,000).
Address inquiries to **Academic Dean, Salisbury State College, Salisbury, Md. 21801. Equal opportunity employer.**

DEVELOPMENTAL OR CELL BIOLOGIST LECTURER, TEMPORARY

One-semester position available beginning 17 January 1975 to teach an intermediate level lecture course (50 to 150 students) in developmental biology or molecular aspects of cell biology.

Candidate must have Ph.D. and preferably teaching experience.

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

Dr. Mary Ella Feinleib
Acting Chairman
Biology Department
Tufts University
Medford, Mass. 02155

Application deadline: 15 November 1974. *Tufts University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are especially welcomed.*

DIRECTOR OF RHEUMATOLOGY DIVISION

Department of Medicine. Applications for this position from qualified individuals are requested. *Columbia University is an affirmative action/equal opportunity employer and women and minority group members are encouraged to apply.* Send curriculum vitae and bibliography to **Charles Ragan, M.D., Department of Medicine, Columbia University College of Physicians and Surgeons, 630 West 168 Street, New York, N.Y. 10032.**

POSITIONS OPEN

DIRECTOR OF RESEARCH AND DEVELOPMENT LABORATORY

The University of Washington seeks experienced administrator in science or engineering for Applied Physics Laboratory with staff of 150 engaged in sponsored research cooperating with other university divisions. Most activities are ocean related, a substantial part for the U.S. Navy. The director must have extensive research and development experience and must be qualified for appropriate faculty appointment, preferably with faculty experience. Send résumé and availability to: **Dean of Engineering, University of Washington, Seattle, Wash. 98195. An equal opportunity employer.**

ECOLOGIST TUFTS UNIVERSITY

Faculty position available September 1975. We seek applicants with graduate training in population dynamics, patterns in the distribution of species, and community interactions. Candidates should have demonstrated independence, originality, and excellence in teaching and research. Duties include: sharing teaching in a general ecology course and an introductory biology course, offering a course in one's specialty, conducting research in that specialty, and directing graduate students in field and laboratory work. The appointment will be at a level commensurate with experience and ability.

Send résumé, reprints, a brief statement of future research plans, and three letters of reference to:

Dr. Benjamin Dane
Chairman, Search Committee
Department of Biology
Tufts University
Medford, Massachusetts 02155

Application deadline: 10 January 1975.

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

POSITIONS OPEN

ECOLOGIST

The Department of Biological Sciences of the University of Illinois at Chicago Circle is seeking an ecologist at the rank of Assistant Professor, starting September 1975. Preference will be given to applicants with an aquatic or plant orientation. The closing date for applications is 1 December 1974. Applications, including curriculum vitae, publications or thesis synopsis, and three letters of recommendation, should be sent to **Dr. Stanley Shapiro, Head, Department of Biological Sciences, University of Illinois at Chicago Circle, P.O. Box 4348, Chicago, Illinois 60680. An Equal Opportunity/Affirmative Action Employer.**

ENGINEER with strong electrical engineering background and industrial experience desired to work in Biomedical Engineering Section of the American Red Cross Blood Research Laboratory. Master's degree in electrical or instrumentation engineering preferred. Job duties will be to assist in the design, development, testing, and evaluation of equipment used in blood banking operations. EOE. Please send résumé to **Kaye Boesel, Office of Personnel, American National Red Cross, 18th and D Streets, NW, Washington, D.C. 20006.**

FACULTY POSITION

The Department of Poultry Science invites applications for a position at the Assistant or Associate Professor level in the field of poultry management, involving both research and teaching responsibilities. Experience or training in the area of poultry nutrition is desirable. The position will be available 1 January 1975 or shortly thereafter. Completed applications are desired as soon as possible, but will be accepted for consideration until 30 November or until the position is filled, whichever is later. *Oregon State University is an Affirmative Action Employer and encourages applications from qualified women and minorities.* or information about the department and the position requirements, contact: **Dr. G. H. Arscott, Head, Department of Poultry Science, Oregon State University, Corvallis, Ore. 97331.**



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PHYSIOLOGISTS

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POSTDOCTORAL POSITION

Immediate opening for biochemist with training in protein isolation and characterization to study molecules modified by bio-transformation products of drugs. Contact

R. R. Becker
Department of Biochemistry and Biophysics
Oregon State University
Corvallis, Oregon 97331

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POSTDOCTORAL RESEARCH

Recent biochemical experience in enzymology, protein chemistry, and amino acids. Send résumé and references to: **Dr. Sarah Ratner, Department of Biochemistry, 455 First Avenue, N.Y. 10016.**

POSTDOCTORAL RESEARCHER

Limnology- or biology-trained postdoc with modeling experience to work on littoral zone research. Seven months definite plus possible extension to additional 24 months. 15 January 1975. \$950 to \$1050 per month.

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Apply with three letters of recommendation to: **Littoral Zone Program, Institute for Environmental Studies, 511 WARF Building, University of Wisconsin, Madison, Wisconsin 53706.**

PHARMACOLOGIST/ TOXICOLOGIST POSTDOCTORAL FELLOWSHIP

Battelle's Columbus Laboratories has the following immediate opening in molecular toxicology, available 1 January 1975, for one year with possible renewal for a second year. The successful applicant should possess a Ph.D. in Pharmacology or Toxicology and have experience in either drug metabolism, molecular toxicology, or antineoplastic drugs. Salary \$12,000 per year. Send résumé to:

Philip L. Morris



Battelle

Columbus Laboratories
505 King Avenue
Columbus, Ohio 43201

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POSITIONS OPEN

PLANETARY SCIENTIST

Applications are invited for a possible faculty appointment in teaching and research in the **DEPARTMENT OF PLANETARY SCIENCES AND LUNAR AND PLANETARY LABORATORY, UNIVERSITY OF ARIZONA.** Particular needs exist in observational and theoretical planetary fluid dynamics and in dynamical astronomy. Inquiries from individuals with distinguished accomplishments in other subdisciplines will also be considered.

Applications, accompanied by résumé, statement of research interests, and complete bibliography, should be sent to **Dr. C. P. Sonett, Department of Planetary Sciences and Lunar and Planetary Laboratory, University of Arizona, Tucson, Arizona 85721,** before 1 January 1975. Letters of recommendation, directed as above, should be requested from at least three persons who are well acquainted with the applicant's accomplishments and potential.

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is an Equal Opportunity Employer*

POSITIONS AVAILABLE

Two positions will be available in the Department of Biological Sciences, Mississippi University for Women, beginning 27 August 1975. Both will involve teaching with an opportunity for research; graduate (M.S.) and undergraduate courses. Rank and salary open. Ph.D. required.

Microbiologist. General Microbiology, Microbial Physiology, Virology, graduate seminars.

Algal Physiologist. General Biology, lower plants, Plant Physiology, Cell Physiology, graduate seminars.

Send curriculum vitae and transcripts to **Dr. Harry L. Sherman, Department of Biological Sciences, Mississippi University for Women, Columbus, Miss. 39701.** Three letters of recommendation required.

POSTDOCTORAL POSITION

Presently available for Ph.D. in Biochemistry. Salary \$10,000. Research on bacterial RNA polymerase with emphasis on structure/function. Send curriculum vitae and references to: **Dr. J. S. Krakow, Department of Biological Sciences, Hunter College of the City University of New York, 695 Park Avenue, New York, N.Y. 10021.**

POSTDOCTORAL POSITION

Available immediately. Research in Immunology-Biochemistry Department: Chemical and immunological studies of Clq and of its interactions with IgG. Experience in protein- and/or immunology preferred. Apply with curriculum vitae to: **Dr. Paul A. Liberti, Department of Biochemistry, Jefferson Medical College, 1020 Locust Street, Philadelphia, Pennsylvania 19107.**

PROFESSOR AND HEAD

Department of Surgery, University of Connecticut School of Medicine. Nominations and applications invited. Applications from women and minority groups are welcomed. Send correspondence and curriculum vitae to: **Dr. Ethan T. Colton, III, Chairman, Search Committee, University of Connecticut School of Medicine, Farmington, Connecticut 06032.**

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PSYCHOPHYSIOLOGIST-PHYSIOLOGICAL PSYCHOLOGIST

Assistant Professor. Any nonclinical area considered, but must have particular competence in psychophysiology and be able to teach physiological psychology. Send résumé and references to **Kenneth R. Henry, Department of Psychology, University of California, Davis, California 95616.**

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RESEARCH ASSOCIATE

Position immediately available for person with training in biochemistry and/or endocrinology to work in areas of in vitro metabolism, enzymology, and steroid hormone biosynthesis of endocrine tissues. Salary \$11,000 to \$12,000. Reply, including curriculum vitae/references to: **Dr. R. A. Meigs, Department of Reproductive Biology, School of Medicine, Case Western Reserve University, Cleveland, Ohio 44106.** *An equal opportunity employer.*

POSITIONS OPEN

DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY UNIVERSITY OF PENNSYLVANIA SCHOOL OF DENTAL MEDICINE

This new department expects to make two appointments at the Assistant Professor level for the forthcoming academic year. Applications are requested from individuals with research interests in all aspects of cellular physiology or pharmacology who can contribute to the teaching of physiology or pharmacology to dental students and to graduate education in a university-wide graduate group in a biomedical science.

Please send your résumé along with the names of three or more references to **Dr. Richard Orkand, Department of Physiology and Pharmacology, University of Pennsylvania, School of Dental Medicine, Philadelphia, Pa. 19174.** *An Equal Opportunity Employer.*

DEPARTMENT OF PLANETARY SCIENCES LUNAR AND PLANETARY LABORATORY UNIVERSITY OF ARIZONA TUCSON, ARIZONA 85721

Applications are invited for appointments as Research Associate in both observational and theoretical space plasma physics. Applicants should possess a recently acquired Ph.D. in a relevant area of physics, astronomy, or planetary sciences.

Inquiries should be addressed to **Prof. J. R. Jokipii or Prof. C. P. Sonett, Department of Planetary Sciences, Lunar and Planetary Laboratory, University of Arizona, Tucson, Arizona 85721.** Applications should be accompanied by résumé, complete bibliography, and at least two letters of recommendation from persons who are well acquainted with the applicant's background and potential.

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PROFESSOR OF OCEANOGRAPHY UNIVERSITY OF MICHIGAN

The University of Michigan announces a staff opening at the senior level for the position of Professor of Oceanography. Applicants should have demonstrated research capability in observational aspects of marine geology, marine chemistry, or physical oceanography and have had experience in management of large research programs. An academic background is desirable, but not required. Applicants may also be considered as candidates for the directorship of the Great Lakes and Marine Waters Center. Complete curriculum vitae and names of three referees should be sent to **Dr. A. W. Green, Department of Atmospheric and Oceanic Science, University of Michigan, Ann Arbor, Michigan 48104.**

The University of Michigan is a nondiscriminatory, affirmative action employer.

RESEARCH ASSOCIATESHIP IN MOLECULAR STRUCTURE

Ph.D. in Chemistry, Biochemistry, Physics interested in determining the molecular geometry of nucleic acids of special composition or sequence, or the structures of connective tissue and bacterial polysaccharides by x-ray diffraction analyses of fibers and computer model building. Send detailed curriculum vitae containing names of two referees to **Professor Struther Arnott, Department of Biological Sciences, Purdue University, West Lafayette, Indiana 47907.**

SCIENCES LIBRARIAN VACANCY, University of Louisville, to head Life Sciences and Natural Sciences Libraries. Responsibilities: provide library service to the students and faculty of these departments. Requirements: 2 to 5 years of library experience, accredited M.L.S., training and/or experience in chemistry, biology, or other relevant science. Benefits: 22 working days of vacation per year, TIAA-CREF, full faculty status, liberal fringe benefits, salary open. Apply to: **Robert Lee Caruthers, University of Louisville Libraries, Belknap Campus, Louisville, Kentucky 40208.** *An equal opportunity employer.*

TISSUE CULTURE TECHNICIAN

Opening in a Chicago suburb hospital for an individual with training and/or experience in tissue culture and immunological techniques to work as a technician in a cellular cancer research laboratory. Biochemical background desirable, but not essential. Excellent salary and benefits. Please send résumé to **Box 479, SCIENCE.**

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POSITIONS OPEN

The Department of Pathology at the Harvard Medical School invites applications from qualified candidates holding M.D. or Ph.D. degrees for positions as postdoctoral fellows, research associates, and instructors in the following fields: Cell Biology and Experimental Pathology with Dr. Morris J. Karnovsky; Viral Oncology with Drs. Thomas L. Benjamin and George Th. Diamandopoulos; Immunobiology and Immunopathology with Drs. Baruj Benacerraf, Albert H. Coons, David H. Katz, Carl W. Pierce, and Emil R. Unanue. Support for these positions may be provided by the research programs of the members of the Department when applicable or will be obtained by the candidates from private foundations or government institutions with the help and support of members of the Department. Applications may be made to the Department of Pathology or to the above-mentioned members of the Department, Harvard University Medical Area, 25 Shattuck Street, Boston, Mass. 02115. *Qualified women and minority group candidates are urged to apply. We are an affirmative action, equal opportunity employer.*

SCIENTIFIC PROGRAMME OFFICER

Applications are invited for a physical or biological scientist with substantial postgraduate experience (5 to 8 years) who is prepared to accept administrative, executive, and liaison responsibilities within an international research group. The group is concerned with Environmental Monitoring and Assessment and forms part of the activities of the Scientific Committee on Problems of the Environment (International Council of Scientific Unions).

The appointment is for 1 year renewable for up to 2 years and will be within the University of London at the upper end of the Lecturer Scale or within the Senior Lecturer/Reader level (£2580 to £5976 plus £213 London allowance), depending upon age, qualifications, and experience. Duties will include liaison with international scientific groups, the organization of scientific workshops and symposia, coordination of the research group activities, and provision of administrative assistance to the director of the group.

Fluency in French would be an advantage.

Further particulars of the above post and conditions of appointment can be obtained on request from the **Appointments Officer, Chelsea College, Manresa Road, London SW3 6LX England**, to whom applications including the names of two referees should be sent by 11 November.

STATISTICS DEPARTMENT CHAIRPERSON

Ph.D. and national/international recognition in statistics or a closely related field; demonstrated ability and interest in both applied and theoretical statistics, plus administrative experience. Will be in charge of faculty of 12, extensive interdisciplinary contract activities, and statistical laboratory.

Application deadline: 15 November 1974.

Contact: **Dr. Richard Shiklar, Chairman, Search Committee, C-7 Social Science Building, Colorado State University, Fort Collins, Colorado 80523.**

Colorado State University is an equal opportunity employer. Ethnic minorities and women are encouraged to apply.

VICE PRESIDENT FOR RESEARCH DEVELOPMENT

Michigan State University seeks to fill the position of Vice President for Research Development. Primary responsibilities of the Vice President are to foster development of research within the University, develop policies for the solicitation and administration of research grants and contracts, assist individuals and units within the University engaged in research activities, and represent the University in its research relationships with other universities, governmental agencies, and funding organizations. The Vice President reports to the President and works closely with the other executive officers and deans in directing research efforts.

Applicants should have an established reputation in research and experience as an administrator, ability to communicate the University's research strengths both internally and externally, familiarity with sources of research funding and procedures for obtaining support, and an understanding of the importance to society and the University of a broad range of research activities.

Salary and starting date are negotiable. Credentials should be sent by 15 November to **Dr. Frederick Dutton, Chairman, Search and Selection Committee, 443 Administration Building, Michigan State University, East Lansing, Michigan 48824.** *An equal opportunity employer.*

POSITIONS OPEN

RESEARCH ASSOCIATE, Ph.D.

Emphasis on human genetics, postdoctoral experience preferred, to assist students in data analysis and programmed learning. Federally funded, salary to \$15,000. Write **John A. Hunt, Chairman, Department of Genetics, University of Hawaii, Honolulu, Hawaii 96822.**

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FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP IN CANCER RESEARCH

Immediate opening in viral oncogenesis; studies to be concerned with development and therapy of viral leukemia in murine model systems. Recent Ph.D. with background in hematology and/or immunology preferred. Annual stipend \$10,000. Send curriculum vitae and references to **James P. OKunewick, Ph.D., Head, Viral Oncogenesis, Cancer Research Unit, Clinical Radiation Therapy Research Center, Allegheny General Hospital, Pittsburgh, Pa. 15212.**

POSTDOCTORAL FELLOWSHIPS

Two postdoctoral openings for January 1975 in the laboratory of Dr. Thoru Pederson. Molecular biology of eukaryotic chromosomes and their transcription products. Focus on nucleoprotein level of organization. Salary \$10,000 to \$14,000 depending on previous postdoctoral experience. Submit list of publications and letters of reference to.

**Dr. Ashton Gibbons, Director of Personnel
Worcester Foundation for Experimental Biology
22 Maple Avenue
Shrewsbury, Mass. 01545**

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TWO POSTDOCTORAL FELLOWSHIPS IN THE EARTH AND PLANETARY SCIENCES

The Lamont-Doherty Geological Observatory of Columbia University invites scientists interested in any field of the earth and planetary sciences to apply for the following fellowships.

Two postdoctoral fellowships, each awarded for a period of 1 year (extendable to 2 years in special instances) beginning in September 1975, with a stipend of \$12,000 per annum. Completed applications are to be returned by 15 February. Application forms may be obtained by writing to the **Director, Lamont-Doherty Geological Observatory, Palisades, New York 10964.**

Award announcements will be made 31 March 1975.



National Research Council Canada
Conseil national de recherches Canada

POSTDOCTORATE FELLOWSHIPS IN GOVERNMENT LABORATORIES 1975-76

The National Research Council of Canada offers Fellowships for 1975-76 on behalf of the following Canadian Government Departments and Agencies: Agriculture Canada; Department of Communications-Communications Research Center; Department of Energy, Mines and Resources; Department of the Environment-Atmospheric Environment Service, Environmental Management Service-Canadian Forestry Service, Inland Waters Directorate; Fisheries and Marine Service-Fisheries Research Board of Canada, Ocean and Aquatic Affairs; Health and Welfare Canada-Health Protection Branch; National Museums of Canada-Museum of Natural Sciences; Atomic Energy of Canada Limited.

An applicant should possess a Ph.D. degree from a recognized university, or expect to obtain such a degree before taking up an award. Candidates having equivalent research experience may be considered. Normally an applicant should not have reached his 36th birthday by 31 March of the year in which the fellowship is to be taken up. Applicants exceeding this age limit should not be more than 1 year past Ph.D. graduation. There are no restrictions regarding nationality of applicants, but successful candidates must meet all Canadian immigration requirements. The competition closes on 15 January 1975.

Effective 1 April 1975, fellowships have an annual value of \$10,500 and are subject to Canadian income tax. An allowance is provided toward the cost of travel.

Inquiries should be addressed to the **Postdoctorate Fellowships Office, National Research Council of Canada, Ottawa, Ontario, Canada K1A 0R6.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

1 July 1975. **EXPERIMENTAL PATHOLOGY**, University of Rochester Medical Center, Rochester, New York. Tenable for 1 to 2 years. For M.D. with at least 1 year of residency training in pathology. Research in one of two fields: (i) subcellular pathology of renal tubules; and (ii) subcellular iron metabolism. Competitive stipend. Inquiries to **Dr. G. W. Richter, Department of Pathology, University of Rochester, 260 Crittenden Boulevard, Rochester, New York 14642.**

POSTDOCTORAL FELLOWSHIP

Applications are invited for the C. H. Best Foundation Postdoctoral Fellowship in the Banting and Best Department of Medical Research. The position is tenable on approximately 1 July 1975 for 2 years with a taxable stipend of \$10,225 for the first year, plus traveling and dependent allowance. The Fellowship is designed for candidates with less than 2 years of postdoctoral experience. Research motivated candidates interested in furthering their training in research areas being investigated by department staff should submit their applications before 1 February 1975. Applications should include curriculum vitae, specific research interest, and the names of three references. A list of staff members and their research interests will be sent on request. Applications or inquiries should be sent to:

**Dr. C. C. Yip
Banting & Best Department of Medical Research
University of Toronto
112 College Street
Toronto M5G 1L6, Ontario, Canada**

PREDOCTORAL FELLOWSHIP IN NEUROBIOLOGY in the Boston University Marine Program, located at the Marine Biological Laboratory, Woods Hole, Mass., beginning 1 September 1975. The fellow will be a degree candidate in Boston University. The Boston University staff working in neurobiology at the Marine Biological Laboratory includes J. Atema, A. Fein, F. Lang, and E. F. MacNichol, Jr. Candidates with Master's degrees preferred, but superior beginning graduate students considered. Application deadline is 1 February 1975. For further information and application forms write: **Director, Boston University Marine Program, Marine Biological Laboratory, Woods Hole, Mass. 02543** (Telephone: 617-548-3705, Ext. 519).

COURSES

The Division of Continuing Education at the University of Arizona, the American Smelting and Refining Company and SEAM (U.S. Forest Service) are sponsoring a 1-week short course on disturbed land reclamation and use in the Southwest, 6-10 January 1975, at the Braniff Place Hotel in Tucson, Arizona. This course will be of particular interest to miners, public administration, and researchers interested in disturbed land reclamation planning and use. Detailed information may be obtained by writing **Conferences and Institutes, Division of Continuing Education, University of Arizona, Tucson, Arizona 85721, or telephone 602-884-1232.**

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