

1-4. Virginia Acad. of Science, Williamsburg. (R. C. Berry, 5907 Brookfield Rd., Richmond, Va. 23227)

2-4. International Conf. on **Surgical Care**, Royal College of Surgeons, Dublin, Ireland. (H. O'Flanagan, Irish Medical Assoc., 10 Fitzwilliam Pl., Dublin 2)

2-6. **Protides of Biological Fluids**, 21st colloquium, Brugge, Belgium. (Colloquium on Protides of the Biological Fluids, Simon Stevin Instituut, Jerusalemstraat 34, B-8000 Brugge)

3-5. Society for American Archaeology, San Francisco, Calif. (R. E. W. Adams, Univ. of Texas, Suite 250, 4242 Piedras Dr., San Antonio 78228)

3-5. American Assoc. for the **History of Medicine**, Cincinnati, Ohio. (G. Miller, Howard Dittrick Museum of Historical Medicine, 11,000 Euclid Ave., Cleveland, Ohio 44106)

3-5. Eastern **Psychological** Assoc., Washington, D.C. (M. Benimoff, Dept. of Psychology, Glassboro State College, Glassboro, N.J. 08028)

3-6. **Christian Medical Soc.**, Dallas, Tex. (H. W. Robinson, 3909 Swiss Ave., Dallas 75214)

3-6. Association of **Clinical Scientists**, Tampa, Fla. (F. W. Sunderman, Jr., Univ. of Connecticut, School of Medicine, Box G, Farmington 06032)

3-7. American **Psychoanalytic** Assoc., Honolulu, Hawaii. (S. Goodman, 3021 Telegraph Ave., Berkeley, Calif. 94705)

3-7. Association for Research in **Vision and Ophthalmology**, Sarasota, Fla. (R. D. Reinecke, Albany Medical College, Albany, N.Y. 12208)

4-5. Minnesota Acad. of Science, Northfield. (M. I. Harrigan, MAS, 3100 38th Ave., S., Minneapolis, Minn. 55406)

4-5. North Dakota Acad. of Science, Grand Forks. (B. G. Gustafson, Div. of Continuing Education, Univ. of North Dakota, Grand Forks 58201)

4-6. American College of **Apothecaries**, St. Louis, Mo. (D. C. Huffman, Jr., 5291 Rock Ridge Rd., Memphis, Tenn. 38128)

4-6. American Acad. of **Psychoanalysis**, Honolulu, Hawaii. (J. Barnett, AAP, 40 Gramercy Park N., New York 10024)

6-11. American Soc. for **Microbiology**, Miami Beach, Fla. (R. W. Sarber, ASM, 1913 I St., NW, Washington, D.C. 20006)

7-9. Rocky Mountain **Bioengineering** Symp., 10th annual, Boulder, Colo. (N. B. Kindig, Dept. of Electrical Engineering, Univ. of Colorado, Boulder 80302)

7-9. Society of **Economic Paleontologists and Mineralogists**, Anaheim, Calif. (Mrs. R. Tener, SEPM, Box 979, Tulsa, Okla. 74101)

7-10. **Aerospace Medical** Assoc., Las Vegas, Nev. (M. H. Goodwin, AMA, Washington National Airport, Washington, D.C. 20001)

7-11. Society of **Manufacturing Engineers**, Detroit, Mich. (R. W. Taylor, SME, 20501 Ford Rd., Dearborn, Mich. 48128)

7-11. Society of **Plastics Engineers**, Montreal, P.Q., Canada. (C. C. Campbell, SPE, 656 W. Putnam Ave., Greenwich, Conn. 06830)

8-9. **Fluvial Processes and Sedimentation**, 9th Canadian **Hydrology** Symp., Edmonton, Alta., Canada. (C. R. Neill, Research Council of Alberta, 303 Civil-

Electrical Engineering Bldg., Univ. of Alberta, Edmonton T6G 2E1)

9-11. **Operations Research** Soc. of America, Milwaukee, Wis. (J. R. Borsting, Dept. of Operations Research and Administrative Science, Naval Postgraduate School, Monterey, Calif. 93940)

9-11. **Midwestern Psychological** Assoc., Chicago, Ill. (W. F. Hill, Dept. of Psychology, Northwestern Univ., Evanston, Ill. 60201)

9-11. International Symp. on **Thrombosis and the Molecular Biology of the Platelet and Other Interacting Cells**, Chicago, Ill. (F. M. Booyse, Dept. of Biochemistry, Rush Medical College, 1753 W. Congress Pkwy., Chicago 60612)

9-12. Society for **Technical Communication**, Houston, Tex. (C. T. Youngblood, STC, Suite 421, 1010 Vermont Ave., NW, Washington, D.C. 20005)

11-12. American Assoc. of **Clinical Urologists**, New York, N.Y. (R. B. Carson, AACU, 708 E. Broward Blvd., Fort Lauderdale, Fla. 33301)

13-17. **Radiation Research** Soc., St. Louis, Mo. (R. J. Burk, Jr., RRS, 4211 39th St., NW, Washington, D.C. 20016)

13-18. **Electrochemical** Soc., Chicago, Ill. (E. G. Enck, ES, P. O. Box 2071, Princeton, N.J. 08540)

13-18. Electronics Div., **Electrochemical** Soc., Chicago, Ill. (H. R. Huff, Texas Instruments, Inc., Mail Station 202, Dallas, Tex. 75222)

13-18. Society for **Experimental Stress Analysis**, Los Angeles, Calif. (B. E. Rossi, SESA, 21 Bridge Sq., Westport, Conn. 06880)

14-16. American Assoc. of **Petroleum Geologists**, Anaheim, Calif. (T. L. Bear, Bear & Kistler, 1052 W. 6 St., Los Angeles, Calif. 90017)

14-17. **Irregularities in the Equatorial Ionosphere**, American Geophysical Union, Dallas, Tex. (A. F. Spilhaus, Jr., AGU, 1717 L St., NW, Washington, D.C. 20036)

14-18. Symposium on **Environmental Behaviour of Radionuclides Released in the Nuclear Industry**, Intern. Atomic Energy Agency, Aix-en-Provence, France. (J. H. Kane, Office of Information Services, U.S. Atomic Energy Commission, Washington, D.C. 20545)

14-18. American **Psychiatric** Assoc., Montreal, P.Q., Canada. (B. W. Hogan, APA, 1700 18th St., NW, Washington, D.C. 20009)

15-17. American Inst. of **Chemists**, Houston, Tex. (P. B. Slawter, Jr., AIC, 79 Madison Ave., New York 10016)

15-17. **Electrical and Electronic Measurement and Test Instrument** Conf., Ottawa, Ont., Canada. (G. R. Symonds, 4-261 Fifth Ave., Ottawa K1S 2N4)

15-20. American **Physiological** Soc., Atlantic City, N.J. (R. G. Daggs, APS, 9650 Rockville Pike, Bethesda, Md. 20014)

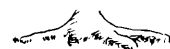
16-18. National Soc. for the **Prevention of Blindness**, New York, N.Y. (W. D. David, NSPB, 79 Madison Ave., New York 10016)

16-19. Society of **Technical Writers and Publishers**, Houston, Tex. (C. T. Youngblood, STWP, Suite 421, 1010 Vermont Ave., NW, Washington, D.C. 20005)

16-20. American **Pediatric** Soc., San Francisco, Calif. (C. D. Cook, 333 Cedar St., New Haven, Conn. 06510)



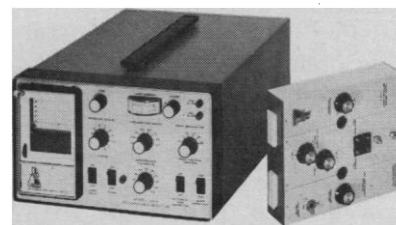
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## Personnel Placement

### POSITIONS WANTED

**Agricultural Research Assistant/Technician;** B.S. biology, experience with effluent and upwelling systems, some graduate credits in field. Write Elliott Zucker, RFD Lakeshore Drive, Mohegan Lake, N.Y. 10547. X

**Biologist,** Ph.D. Princeton. Developmental biology, experience in education and administration. Qualified to develop, administer, and teach large introductory course. Research interest in cell adhesion. Wayne A. Moyer, Biology Department, Princeton University, Princeton, N.J. 08540. X

**Biologist/Microbiology/Electron Microscopist.** Ph.D. Two years of postdoctoral research in nerve regeneration. Extensive experience and publications in electron microscopy, tissue culture, autoradiography, and diagnostic microbiology. Available September 1973 or earlier. R. DeHan, 445 Conrad, #13, Tallahassee, Florida 32304. X

**General Manager, V.P., director,** Ph.D. microbiologist: diversified experience—production quality control, R & D sales in health fields—diagnostics, biologicals, pharmaceuticals, chemicals. Desires management, applied research, Q.C., or academic administration position. Box 449, SCIENCE.

**Ecophysicist.** Senior researcher, recently completed book (as yet unpublished) applying theoretical physics to the study of ecology, 20 years of research and 12 years of teaching experience, directed Ph.D. theses, publications in a variety of areas including theoretical physics and ecology. Seeks position where research in theoretical ecology would be encouraged. Box 462, SCIENCE. X

**Educator,** Ph.D. 41, outstanding teacher of biological and physical sciences to nonmajors. Stifled in old position, seeks rewarding new one. Available immediately. Box 463, SCIENCE. X

**Human and General Geneticist,** 37, Ph.D. (1965), 15 years of professional academic experience. Currently on postdoctoral (cytogenetic and familial inheritance in neuromuscular disease). Special interest in genetic counseling. Desires academic position. Box 464, SCIENCE. X

**Immunochemist,** 32; engineering (1965), Ph.D. (1968) biophysic. chem. Research United States or abroad/English-French-German-Dutch. Fractionation/immunoelectrophoresis (Laurell-Freeman)/radioimmunoassay; free 1973. Box 430, SCIENCE. X

### POSITIONS OPEN

#### FACULTY OPENINGS FOR SEPTEMBER 1973

**BIOLOGY:** Ecologist interested in urban ecology, systems ecology, or biometeorology; Botanist interested in field physiological ecology or systematics and evolution; Microbiologist with interest in membrane phenomena; Embryologist with interest in neural physiology; Endocrinologist.

**CHEMISTRY:** Organic and Experimental Physical Chemists.

**PHYSICS:** Of biology and health, the earth, astronomy, quantum electronics and optics, computer simulation, atoms and molecules or solid state. Preference will be given to experimentalists or experimentally bent theoreticians, with a strong commitment to innovative programs in physics.

Priority given to applicants with interest in interdisciplinary research and instruction; Audio-Tutorial and Computer Assisted Instruction. Number of positions contingent on legislative appropriations.

Forward applications, curriculum vitae, transcripts, and three references by 1 January 1973, to Martha Weier, Secretary Faculty Search Committee, The University of Michigan—Dearborn, 4901 Evergreen Road, Dearborn, MI 48128.

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**CHAIRMAN, DEPARTMENT OF CHEMISTRY** Application is invited for the position of Chairman, appointment effective no later than 1 July 1973. Major responsibility involves administration and leadership of 12-man department with extensive undergraduate and growing M.S. programs. Ph.D. in biochemistry preferred. Send vita to Search Committee, Department of Chemistry, Old Dominion University, Norfolk, Virginia 23508.

### POSITIONS OPEN

#### DEAN, COLLEGE OF SCIENCE

Rochester Institute of Technology seeks an individual with strong interdisciplinary interests, fresh ideas, and developed leadership talents to fill the position of Dean of the College of Science. Candidates should have a doctorate in a natural science or mathematics, administrative and teaching experience, and a record of scholarly attainment. Send résumé to:

Prof. David M. Crystal  
Chairman, Search Committee  
College of Science  
Rochester Institute of Technology  
1 Lomb Memorial Drive  
Rochester, New York 14623

Rochester Institute of Technology is an equal opportunity employer.

#### CHAIRMAN, BIOLOGY DEPARTMENT

Proven as teacher and scholar. Administrative experience preferred but clear evidence of administrative potential acceptable. Contact: Paul G. Jensen, Chairman, Search Committee, Colby College, Waterville, Maine 04901.

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#### DIRECTOR OF NUCLEAR MEDICINE DIRECTOR OF RADIATION THERAPY STAFF RADIOLOGISTS

Send résumé to:

G. S. Lodwick, M.D., Chairman  
Department of Radiology  
University of Missouri Medical Center  
Columbia, Missouri 65201

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#### DIRECTOR OF GREAT LAKES RESEARCH

Due to the impending retirement of the present director, the University of Michigan invites applications or nominations for Director of the Great Lakes Research Division, a multidisciplinary institute emphasizing oceanographic, limnological and ecological research on the Great Lakes. The new director will hold a professorial appointment on the faculty and will have the responsibility of coordinating university programs in teaching and research on the Great Lakes. Applicants are requested to submit vitae by 1 February 1973 to Professor David M. Gates, GLRD Search Committee Chairman, Natural Science Building, The University of Michigan, Ann Arbor, Michigan 48104.

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

#### UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE CHICAGO, ILLINOIS

invites applications for a position in Ecology beginning September 1973. Consideration will be given to candidates whose academic training and intellectual qualifications are indicative of a high research potential in one of the areas of ecological specialization. The appointee will be expected to participate in undergraduate and graduate teaching. The level of appointment and salary are open. Please write and submit curriculum vitae to:

Dr. David B. Mertz  
Department of Biological Sciences  
University of Illinois At Chicago Circle  
Box 4348, Chicago, Ill. 60680

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#### SENIOR ECOLOGIST

Ph.D. in Ecology or Field Biology and familiarity with field sampling and laboratory methods for 10 years or more is desired. Demonstrated capability to coordinate field teams and multidisciplinary personnel is required.

Job responsibilities will include client contacts, frequent travel, program planning, and project leadership. Send résumé and salary requirements to:

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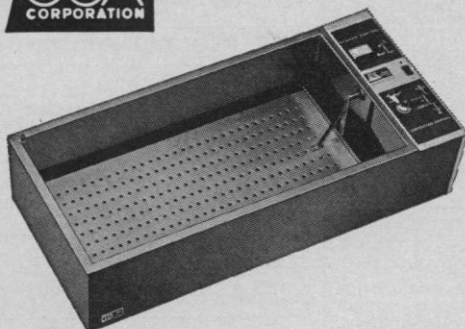
**EMBRYOLOGIST.** Ph.D., teaching/research required. Undergraduate and graduate experimental embryology and comparative vertebrate anatomy.

**ELECTRON MICROSCOPIST.** Ph.D., teaching/research required. Undergraduate and graduate courses in histology, cytology, microtechnique, and electron microscopy. Salary and rank open, September 1973. Send résumés to Biology Department, State University College, New Paltz, New York 12561.

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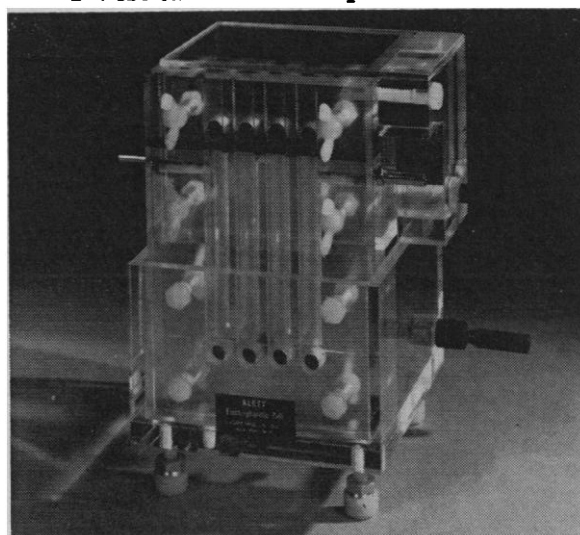


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### BROOKLYN COLLEGE OF THE CITY UNIVERSITY OF NEW YORK DEPARTMENT OF BIOLOGY

invites applications for the following permanent positions commencing September 1973, involving participation in expanding undergraduate and graduate teaching and research programs:

**GENETICIST:** With research specialization in algal, fungal, human, or behavior genetics; capable of teaching a general genetics course to undergraduate majors and graduate courses in the field of specialization.

**MARINE INVERTEBRATE ECOLOGY:** With research specialization in marine invertebrate ecology or marine invertebrate physiology; capable of teaching undergraduate and graduate ecology and invertebrate zoology.

**MICROBIOLOGIST:** With research specialization in nonmedical microbiology; will especially consider immunology, regulation, membrane phenomena; with teaching specialization in general microbiology for undergraduates and nurses, and graduate courses in one of the specialized areas above.

**GENERAL PHYSIOLOGIST:** With research specialization in organ physiology or non-excitabile membrane physiology; capable of teaching general or cell physiology. Age, sex, race, religion, and ethnic origin immaterial; applications are invited from all qualified persons. Ph.D. degree required; postdoctoral training recommended. Rank and salary open. Send curriculum vitae to **Dr. Donald D. Hurst, Chairman, Department of Biology, Brooklyn College, Brooklyn, New York 11210.**

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### HYDROLOGIST/CLIMATOLOGIST

Assistant Professor, Fall 1973. Ph.D. Candidate should possess competence in water resources, including the necessary grounding in climatology and hydrology, and in the application of such expertise to soils and agriculture. Equal opportunity employer. Send vita to **H. J. Nelson, Staffing Committee, Department of Geography, University of California, Los Angeles, California 90024.**

### MAMMALIAN ANATOMIST

Beginning September 1973. Primarily a teaching position but research is encouraged. Must have Ph.D. Rank is assistant professor with a competitive salary. Send curriculum vitae and references to **C. J. Goodnight, Department of Biology, Western Michigan University, Kalamazoo, Michigan 49001.**

*An Equal Opportunity Employer*

### UNIVERSITE LAVAL Faculté des Sciences Département de biologie

Applications for a position in Limnology are invited from zoologists qualified to teach Limnology and, if possible, management of fresh-water fauna. The research interests of the candidate should be in any field of fresh-water ecology (for example, production, population biology, environmental physiology, behavioral ecology, pollution control, and so forth).

The appointee will be required to teach in French. However, candidates who have not mastered French may apply with the understanding that they are willing to learn the language within a reasonable period. The Department of Biology has a teaching staff of 20 members and some post-doctoral fellows. Inquiries and applications should be forwarded to: **Dr. Lucien Huot, Directeur, Département de biologie, Faculté des Sciences, Université Laval, Québec 10, Canada.**

Sangamon State University will inaugurate a B.A. program in the physical sciences in September 1973, subject to approval by the Illinois Board of Regents and the Board of Higher Education. The program has openings and seeks persons committed to excellence in undergraduate teaching. Applicants should have ideas for relating science to public affairs, as well as for initiating research projects involving undergraduates. Applicants are sought with the following background

- 1) Physical Chemistry or Organic Chemistry
- 2) Earth Science or Environmental Science
- 3) Chemical Physics, Geophysics, or Biophysics

An equal opportunity employer. Send résumé to: **Dr. William Rauehorst, Physical Science Program, Sangamon State University, Springfield, Illinois 62708.**

### FACULTY POSITION

**Microbiologist (Virologist).** Ph.D. required. Candidates having D.V.M. and Ph.D. and a specialization in domestic animal disease virology will be given preference. Teaching/research position. Assistant or Associate Professor, 9-month, regular appointment. Salary open. Send résumé and letters of recommendation by 30 March 1973 to: **Dr. James E. Ogg, Head, Department of Microbiology, Colorado State University, Fort Collins, Colorado 80521.**

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### PHYSIOLOGICAL PSYCHOLOGIST

The Ohio State University will have a position, beginning with the academic year 1973-1974, for a recent Ph.D. with evidence of competence in teaching and research in physiological psychology. The appointment will be as an Assistant Professor of Psychology. The duties will include responsibilities for teaching undergraduate courses in elementary psychology, physiological psychology, and experimental psychology. The person appointed would be expected to accept, as rapidly as possible, further assignments in graduate instruction and advising of graduate students. Applicants must have strong backgrounds in behavioral electrophysiology and/or behavioral neuropharmacology. Excellent facilities are presently available for many lines of neuropsychological work, and the department of psychology has very strong ties with other local groups of neuroscientists. Candidates should submit a vita and preprints or reprints of papers, and should arrange for three letters of reference. Communications should be sent to:

**Dr. Donald R. Meyer, Professor of Neuropsychology, The Ohio State University, 202 Kinnear Research Center, 1314 Kinnear Road, Columbus, Ohio 43212.**

*An Equal Opportunity Employer*

### Ph.D. PHYSIOLOGIST

Teaching and research Animal Physiologist, desired minor in contemporary genetics. Appointment rank and salary commensurate with qualifications, effective 1 September 1973. Résumé, letters of recommendation, and complete academic records to: **Richard C. Leonard, Chairman, Department of Biology, University of Alabama in Huntsville, Huntsville, Alabama 35807.**

### PROFESSOR OF PSYCHIATRY

Immediately in the Mental Health Research Institute, University of Michigan Medical Center. Candidate must be senior investigator with M.D. or Ph.D. to conduct a basic research program using neurophysiological or related techniques on problems relevant to mechanism of behavior and mental illness. Code #1300S. Send résumé to **Box 468, SCIENCE. A Nondiscriminatory Affirmative Action Employer.**

## BLOOD BANK MANAGEMENT

A major West Coast medical products firm has immediate openings for management level personnel who have strong blood banking administrative and technical experience. The individuals we are seeking must be capable of working independently in areas such as donor center (plasmapheresis) operations, immunization scheduling, inspections, inventory control and financial forecasting. These growth oriented positions offer an excellent starting salary plus an outstanding benefits package which includes stock purchase, profit sharing, free life insurance, group medical plan, paid sick leave and vacation. Please send resume with salary history to:

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## POSITIONS OPEN

Applications are invited for three positions expected to be funded starting fall 1973 in the Biology Program at Sangamon State University. **Plant Biologist** with broad background in plant physiology, anatomy, and ecology. **Microbiologist** with medical laboratory, industrial and/or public health experience. **Environmental Toxicologist/Pharmacologist**. Sangamon State University is a senior university emphasizing teaching competency, advising, application of technical expertise to social concerns. Applicants should be broadly trained and willing to teach both basic and applied courses. *Equal opportunity employer*. Interested candidates should contact: **Dr. William Martz, Biology Program Committee, Sangamon State University, Springfield, Illinois 62708.**

## GRADUATE STUDY

### GRADUATE STUDIES IN PHYSIOLOGY

Excellent opportunities in programs leading to M.Sc. and Ph.D. degrees are offered in various specialty disciplines of physiology and biophysics. Stipends from \$3000 to \$3600 are available for the 8-month academic year. Travel assistance may be provided. Applications from all areas of life and physical sciences are considered according to individual interests and circumstances. In practice only a small number of students are admitted each year, but all of those accepted have been awarded stipends. For information contact: **Dr. E. J. Sanders, Supervisor of Graduate Student Program, Physiology Department, University of Alberta, Edmonton, Alberta, Canada.**

**PREDOCTORAL FELLOWSHIPS IN PHYSIOLOGY.** Training leading to the Ph.D. with special orientation in physiological control systems, cardiovascular, temperature regulation, endocrinology, cell physiology, and neurophysiology. Emphasis upon preparation for academic careers combining teaching and research. Stipends with tuition and dependency allowance available to qualified undergraduates in engineering, biology, chemistry, mathematics, or physics. A maximum of five new students accepted each year, maintaining a low student-adviser ratio. **Graduate Program Director, Department of Physiology, Loyola University, Stritch School of Medicine, 2160 South First Avenue, Maywood, Illinois 60153.**

## DOCTOR OF ARTS IN BIOLOGY

Predocutorial fellowships are available now for qualified students interested in studying for the Doctor of Arts degree in Biology. Applicants must hold a Master of Science degree in Biology or its equivalent. For details of this new program and fellowship application materials write to: **Chairman, Department of Biology, Idaho State University, Pocatello, Idaho 83201.**

## REQUEST FOR PROPOSAL

It is the intention of the **Carcinogenesis Area of the National Cancer Institute** to advertise the availability of a Request for Proposal entitled "Investigating a Sensitive, Reproducible, Quantitative *In Vitro* Bioassay for Detecting Chemical Carcinogens."

Individuals representing research organizations who wish to receive copies of this request for proposal when it becomes available are invited to submit their names to the following address prior to 17 December 1972. (Request must reference RFP No. NCI-E-C-73-13): **Maurice S. Fortin, National Cancer Institute, Landow Building, Room 425E, Bethesda, Maryland 20014.**

It is the intention of the **Carcinogenesis Area of the National Cancer Institute** to advertise the availability of a Request for Proposal entitled "Immunoprophylaxis and Immunotherapy of Autochthonous Cancer in Large Mammals."

Individuals representing research organizations who wish to receive copies of this request for proposal when it becomes available are invited to submit their names to the following address prior to 17 December 1972. (Request must reference RFP No. NCI-E-C-73-14): **Maurice S. Fortin, Contract Specialist, National Cancer Institute, Landow Building, Room 425E, Bethesda, Maryland 20014.**

## COURSES

### BIOLOGICAL ELECTRON MICROSCOPY FOR TECHNICIANS 11-16 February 1973

Northeastern University, Fifth Session

An intensive residential program primarily for technicians with some experience in electron microscopy who wish to expand and secure their knowledge of biological specimen preparation. Students and others who feel this program will fill their needs also will be considered for admission. For more information, write or call **Dr. Morton Maser, Northeastern University, 360 Huntington Avenue, Boston, Massachusetts 02115; 617-437-2600.**

### WOODS HOLE EMBRYOLOGY COURSE SUMMER 1973

The 1973 Embryology Course will again be centered on a particular area of developmental biology. The faculty of the course will be **Dr. Eric Davidson, California Institute of Technology; Dr. Gary Freeman, University of Texas; Dr. Fotis Kafatos, Harvard University; Dr. L. Dennis Smith, Purdue University; Dr. Igor Dawid, Carnegie Institution of Washington; and Dr. Joseph Gall, Yale University.** This year the main theme of the course will be the synthesis, storage, and utilization of developmental information during oogenesis. The Embryology Course is conceived as an opportunity for advanced graduate students, postdoctoral investigators, and the faculty to study oogenesis at the molecular level.

The course will begin 28 June and will extend through August. Applicants should contact one of the staff no later than 1 February. Application blanks can be obtained by writing to the **Marine Biological Laboratory, Woods Hole, Mass. 02543.** The course is supported by an NIH Training Grant which provides limited funds for the participants' living expenses, tuition, and travel to and from Woods Hole.

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## APPLICATIONS ARE INVITED FOR APPOINTMENT AS HEALTH SCIENTIST ADMINISTRATOR IN THE NATIONAL INSTITUTE OF DENTAL RESEARCH

The National Institute of Dental Research has established the National Caries Program to develop measures and agents for markedly reducing the prevalence of tooth decay.

A senior research scientist is needed to direct the activities of the Caries Prevention and Research Branch, a part of the National Caries Program. The successful applicant will have experience and proven ability in both laboratory and clinical caries research, and will be capable of administering the research of 20 senior investigators and supporting staff. The salary range for this civil service appointment is from \$25,583 to \$28,142. U.S. citizenship required.

Those interested in being considered are invited to submit their resume in confidence before 15 January 1973 to:

Associate Director for National Caries Program  
National Institutes of Dental Research  
National Institutes of Health  
Westwood Building, Room 528  
5333 Westbard Avenue  
Bethesda, Maryland 20016

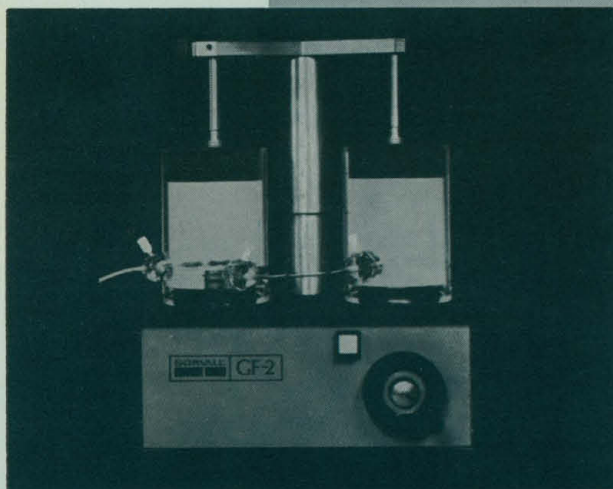
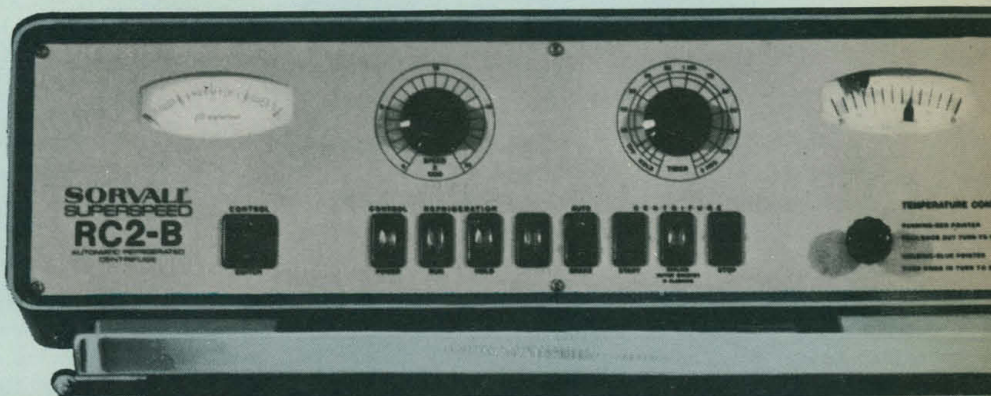
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# THE COMPLETE SYSTEM

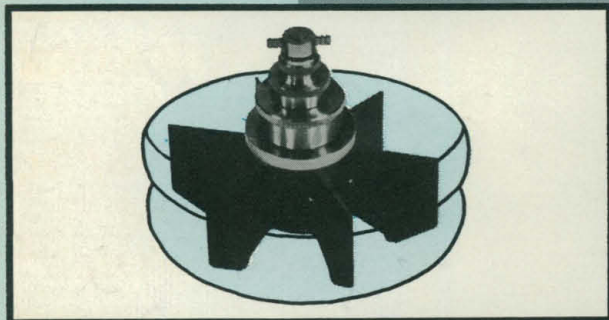
## FOR ZONAL AND CONTINUOUS-FLOW CENTRIFUGATION

**The Sorvall RC2-B Automatic Super-speed Refrigerated Centrifuge.** When it comes to a complete centrifugation system, nothing else comes close to this Sorvall combination. It begins with the RC2-B. Speeds up to 20,000 RPM. Forces to 48,200 x G with a 400 ml rotor — and without vacuum. Ultra-smooth separations. Reason: Sorvall's exclusive, patented Gyro-Action Direct Drive.

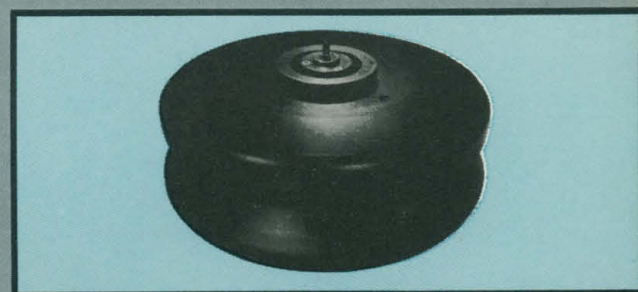


**The new Sorvall Gradient Maker.** Not only new, but unique. This piston-action, two-chamber instrument lets you generate linear, concave or convex exponential (logarithmic) gradients for zonal centrifugation, chromatography, electrophoresis and other techniques. Provides positive or negative linear gradients of any selected slope. And here's the best news of all — its performance equals instruments costing two or three times as much.

**The SZ-14 with our new GK Continuous-Flow Converterkit.** Continuous-flow work flows along easily — when you work with the SZ-14, the Sorvall GK Converterkit, and the RC2-B. You'll get flow rates up to 1,400 ml per minute — that's 84 liters an hour — and collect up to 800 ml of sediment in one run.



**The Sorvall Peristaltic Pump.** Use it to introduce density gradients into — and remove them from — the Sorvall SZ-14 Zonal Rotor (shown below). This exceptional pump can produce continuously variable flow rates up to 138 ml per minute.



**The Sorvall SZ-14 Reorienting Density Gradient Zonal Rotor.** Different from all other zonal rotors. No rotating or complex seal assemblies. Only four major parts. So it's easy and economical to clean and maintain. What's more, it can be loaded statically or dynamically, and unloaded at rest following gradient reorientation. Accommodates up to 1,350 ml of gradient and sample. Up to 19,500 RPM (40,500 x G). Sediments most subcellular particles, larger particles and whole cells. No overlay or dense displacing solutions required. And consider this: the SZ-14 plus our RC2-B cost little more than most other zonal rotors *alone*.

**Choose your collector or detector.** The Sorvall system is not only total but versatile. It's a handy help in collection and detection, readily compatible with a variety of instruments including continuous-flow UV scanning equipment, sucrose gradients through a refractometer, fraction collectors, and manual collection in tubes.

So why settle for less than everything? Write or phone us today for complete details about *the* complete centrifugation system. No obligation, of course. Ivan Sorvall, Inc., Norwalk, Conn. 06856. (203) 847-2491.

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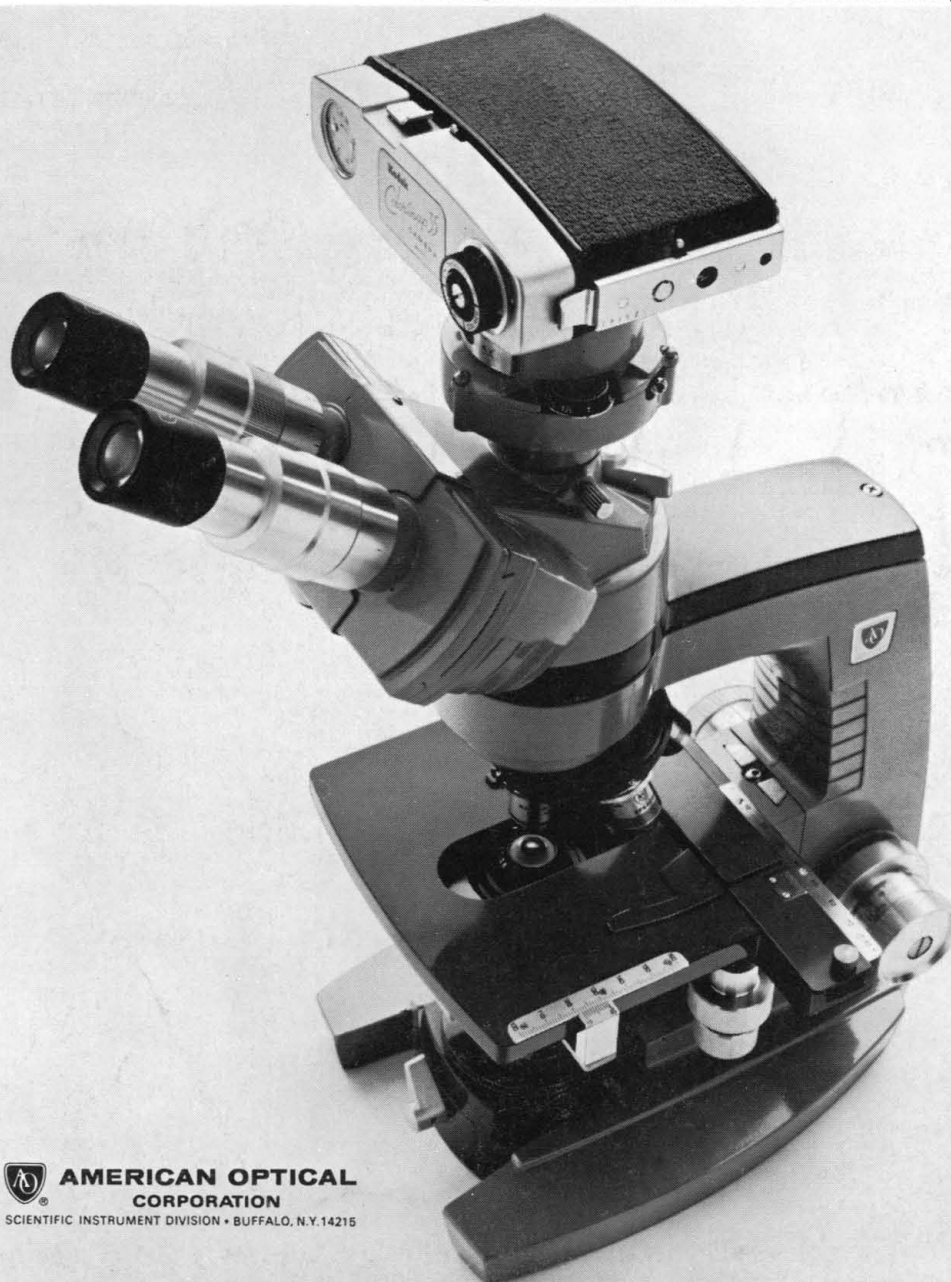


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