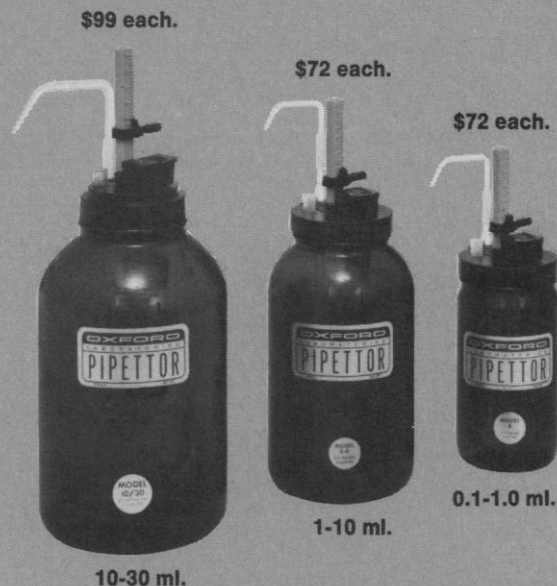


Clean and Easy!



Use Oxford® PIPETTORS!

Oxford® PIPETTORS® give the modern laboratory consistent repetitive dispensing and freedom from old problems of cleaning and breakage. Full-scale reproducibility: $\pm 0.5\%$.

Use Oxford® PIPETTORS with virtually any reagent. Only glass and Teflon® contact the liquids. No cross-contamination. Compact design protects modular parts inside heavy reservoir and uses patented self-cleaning syringe. Autoclavable. Versatile dispensing ranges: 0.1 to 30 ml.

Order through these authorized Oxford distributors:
Scientific Products
Fisher Scientific Company
Curtin Matheson Scientific, Inc.
V W R Scientific
Arthur H. Thomas Company
Scherer Medical/Scientific

In Canada:
Canadian Laboratory Supply, Ltd.
Fisher Scientific Company, Ltd.
Earl H. Maynard Company, Ltd.

OXFORD
LABORATORIES

Subsidiary of G. D. Searle & Co.
Foster City, California 94404

*Covered by U.S. Patent No. 3,452,901

When it comes to measuring cyclic AMP & GMP, we're supersensitive.

The Collaborative Research radioimmuno-reagents that you've come to depend on in your research, have now been adapted to the new Marseille succinylation procedure, making them supersensitive.

You can now use CR reagents to detect — simply and quickly — cyclic AMP and GMP at the level of 2.5×10^{-15} mole. This sensitivity far exceeds that possible with currently available radioimmunoassay and protein binding tests — allowing you to assay very small samples of tissue or tissue culture cells. And we supply the entire reagent system for the Marseille method.

Of course, detailed protocols are provided. Or, if you wish, we'll perform the assays for you. We also give you the added flexibility of choosing individual reagents or complete packages, and that could trim your costs.

The adaptation of our reagents to the new Marseille method is another example of Collaborative Research leadership. Our technical staff is on top of the latest research developments. And they're the people you deal with — not salesmen or middlemen. So if you're looking for supersensitivity in your RIA tests for cyclic AMP or GMP — or tests for LSD and Cannabinoids — look to Collaborative Research.



Research Products Division

Collaborative Research, Inc.

1365 Main Street, Waltham, Mass. 02154
Tel. (617) 899-1133 ext. 5 Cable: COLLABRES
Original and sole source for many advanced research products

Mail this coupon for more information.

- ☐ Cyclic GMP* ☐ Succinylation Method ☐ LSD
- ☐ Cyclic AMP ☐ Succinylation Method ☐ Cannabinoids
- ☐ Please send information on the products I have checked above.
- ☐ Please add my name to your mailing list.

Name _____

Position _____

Affiliation _____ Tel. _____

Address _____

City _____ State _____ Zip _____

S-910

Circle No. 117 on Readers' Service Card

AQUATIC CHEMIST

Westinghouse Environmental Systems Department, a leading national environmental consultant to government and the utility and manufacturing industries, has an immediate opening for an aquatic chemist at the senior professional level.

Candidate should have a Ph.D. in water chemistry and industrial or government agency experience in analysis related to toxic substances in water, their relationship to water standards, and the biological factors underlying water quality criteria. Position requires an aggressive marketing-oriented individual possessing superior written and oral communicative skills.

Please forward detailed résumé and salary history and requirements in confidence to **A. P. Lundberg, Manager of Program Administration, Westinghouse Environmental Systems Department, P.O. Box 1899, Pittsburgh, Pennsylvania 15230. Telephone 412-256-5901. An Equal Opportunity Employer, M/F.**

ASSISTANT INSTRUCTOR available immediately. Seeking recent Ph.D. with experience in micro-electrode techniques. Problem area of research relates to the neuropharmacology of dyskinesia. Applicant should send curriculum vitae, including a list of publications, and names of three references to **Leslie P. Felpel, Ph.D., Assistant Professor, Department of Pharmacology, The University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, Texas 78284. An Equal Opportunity/Affirmative Action Employer.**

The Graduate School of Public Policy of the University of California, Berkeley, invites applications for the position of **ASSISTANT PROFESSOR**, beginning in fall 1977. The position is particularly suited to individuals with policy analysis experience in government-related work on American domestic policy issues. An emphasis in the application of quantitative methods to problem-oriented issues from a multidisciplinary perspective is preferred, along with an appreciation for the organizational and political contexts of policy problems. Teaching responsibilities involve instruction in the core curriculum of the graduate program, which includes applications of economic, quantitative, political, and organizational analysis to public policy, and other graduate and undergraduate courses. The Ph.D. degree is required. Curriculum vitae and supporting documents should be sent to:

**Chairman, Faculty Search Committee
Graduate School of Public Policy
2607 Hearst Avenue
Berkeley, California 94720**

The University of California, Berkeley, is an Equal Opportunity/Affirmative Action Employer. Minority persons and women are encouraged to apply.

ASSISTANT OR ASSOCIATE PROFESSOR: BIOPHYSICS

We seek applications from candidates with research interests in biophysical properties of biological membranes and/or membrane materials for a joint faculty position in the Department of Physics and School of Biological Sciences, Oklahoma State University. Candidates at both the assistant and associate professor level will be considered. The university has recently initiated a multidisciplinary program in biomembrane research supported by university funds, and participation in this program will be encouraged of the successful applicant for this position. Interested persons should direct inquiries or send curriculum vitae and names and addresses of three references to **Dr. Richard C. Powell, Department of Physics, Oklahoma State University, Stillwater, Oklahoma 74074.**

Oklahoma State University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORSHIPS IN CELLULAR IMMUNOLOGY, ANIMAL VIROLOGY, PLANT BIOLOGY, AQUATIC BIOLOGY, AND DEVELOPMENTAL BIOLOGY

A rapidly growing, well-equipped modern department of biological sciences located in the hills outside Baltimore is seeking scientists with post-doctoral research experience who have demonstrated their ability to initiate vigorous research programs and have a commitment to quality graduate and undergraduate teaching. Appointments are contingent upon availability of state funds. Submit curriculum vitae, bibliography, names of suggested referees, and a description of research interests to: **Dr. Thomas F. Roth, Chairman, Search Committee, Department of Biological Sciences, University of Maryland Baltimore County, Catonsville, Maryland 21228. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT BIOCHEMIST POSTDOCTORAL POSITION

Available immediately for 1 to 2 years. Basic research on the mechanism of receptor-mediated changes in lipid metabolism at Harvard-affiliated psychiatric hospital. Salary to \$13,000. Send curriculum vitae and letters of recommendation to: **Dr. George Hauser, McLean Hospital, 115 Mill Street, Belmont, Mass. 02178. An Equal Opportunity/Affirmative Action Employer.**

The Department of Endocrinology and Metabolism of the Department of Medicine at the University of Alabama in Birmingham has available the position of **ASSISTANT PROFESSOR** specializing in **BASIC PHYSIOLOGICAL RESEARCH**. Successful candidates for this position should have their Ph.D. and should have demonstrated their scientific capabilities in biochemical, electrophysiological, and functional aspects of pancreatic research. This individual must also have a firm commitment and involvement in teaching programs for medical students, post-doctoral fellows, and allied health personnel. To apply send full credentials to: **Steve R. Vinson, Administrative Associate, University of Alabama Medical Center, Birmingham, Alabama 35294. Expiration date for receipt of application: 30 October 1976. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR OF PHYSIOLOGY

The Department of Physiology has a position available for which applications are invited. Preference will be given to candidates holding an M.D. or Ph.D. degree with experience and interest in skeletal muscle physiology at the cellular level, for example, excitation-contraction coupling. The position involves medical and graduate student teaching. Please send curriculum vitae, bibliography, and names and addresses of three references to: **Chairman, Muscle Physiology Search Committee, Department of Physiology, Yale University School of Medicine, 333 Cedar Street, SHM B-106, New Haven, Connecticut 06510. Applications from women and members of minority groups are encouraged. An Equal Opportunity/Affirmative Action Employer. Applications should be received before 15 October 1976.**

BIOCHEMISTRY. The Chemistry Department of the University of Oklahoma is seeking outstanding candidates for a permanent faculty position. Applicants must have a Ph.D. in biochemistry with excellent credentials in both research and teaching. Research interest should be in the area of nucleic acids, but applicants in other research areas will be considered. Inquiries should be sent to: **Chairperson, Biochemistry Search Committee, Department of Chemistry, University of Oklahoma, 620 Parrington Oval, Norman, Oklahoma 73019. An Equal Opportunity/Affirmative Action Employer.**

BIOLOGIST/GEOLOGIST. Project Manager for expanding technical area of biological and geological aspects of planning and implementing coastal zone management. Beginning salary up to \$22,906 depending on experience and Civil Service rating. Office of Coastal Zone Management, National Oceanic and Atmospheric Administration, Department of Commerce, Bachelor's in biology or geology. Background in both desirable. Three years of professional experience but graduate education may partially substitute. Experience in resource planning or management, environmental assessment, or coastal zone management. Submit SF171 by 13 September to **Department of Commerce, National Oceanic and Atmospheric Administration, Attn: AD-412 ARC, 3300 Whitehaven Street, NW, Page 2, Washington, D.C. 20235. Telephone: 202-634-7357. The Department of Commerce is an Equal Opportunity Employer.**

CAREER POSITION OPENING WITH MAJOR MICROSCOPE MANUFACTURER

As midwestern representative covering four-state area (Ohio, Kentucky, western New York, western Pennsylvania). Must have solid background in optics, biological sciences, and sales experience. Interviews will be held in your territory. Send résumé to **SWIFT INSTRUMENTS, INC., P.O. Box 562, San Jose, California 95106.**

POSITIONS OPEN

BIOCHEMISTRY, University of Denver. Post-doctoral position identifying sites in transfer RNA crosslinked by rigid, variable-length reagents. Sequencing experience desirable. \$10,000 first year, potentially renewable. Send curriculum vitae and three references to: **Dr. E. Wickstrom, Department of Chemistry, University of Denver, Denver, Colorado 80208. Telephone: 303-753-2101. The University of Denver is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minority groups.**

CHILD PSYCHOLOGIST, assistant or associate level. Ph.D. and some professional experience. Some latitude concerning the specific expertise within the child area. Position anticipated for fall 1977.

Sangamon State University is located in the state capital and is an open admissions, upper-division/graduate institution offering the B.A. and M.A. degrees.

Sangamon State University is an Equal Opportunity/Affirmative Action Employer.

Please address all inquiries plus four letters of recommendation to:

**Jonathan L. Hess, Ph.D.
Coordinator of the Psychology Program
Sangamon State University
Shepherd Road
Springfield, Illinois 62708**

DEAN OF FACULTY

Pitzer College, a member of the Claremont Colleges, is a small liberal arts college emphasizing the social and behavioral sciences. Applicants should be persons of academic stature with successful teaching experience, research accomplishments, and administrative skills and should be capable of providing academic leadership. Position available: 1 July 1977. Applications, including current résumés, will be received through 1 November 1976 and should be sent to: **Lucian C. Marquis, Chairman, Dean's Search Committee, Pitzer College, Claremont, Calif. 91711. An Equal Opportunity/Affirmative Action Employer.**

DEAN COLLEGE OF ENGINEERING UNIVERSITY OF ARIZONA

Nominations and applications are sought for the position of Dean, College of Engineering, at the University of Arizona, Tucson, Arizona.

Qualifications: earned doctorate or equivalent in engineering, with substantial experience and identifiable research contributions.

Responsibilities: dean is responsible to the president of the University for operation of the College including instruction, research, and public service.

Salary: commensurate with qualifications.

Effective date: 1 July 1977.

Closing date for applications: 15 October 1976.

Applicants should submit a complete résumé with references. Nominations should include addresses and phone numbers. All materials should be sent to:

**Dr. Robert L. Seale, Chairman
Dean Search Committee
Department of Nuclear Engineering
College of Engineering
University of Arizona
Tucson, Arizona 85721**

An Equal Opportunity/Affirmative Action Employer

DIRECTOR OF THE GRADUATE PROGRAM IN RADIATION BIOLOGY

The University of Iowa is seeking a director to provide leadership in research and education for the Graduate Program in Radiation Biology. The program meets the needs of students and faculty in all segments of the University by providing specialized radiation facilities and consultation relative to the proper use of radioactive materials and the sources of radiation.

Qualifications: The applicant must have a Ph.D. or equivalent and demonstrated experience to warrant consideration for assumption of the directorship.

Salary: The salary will be commensurate with experience and qualifications of the applicant. The University of Iowa has excellent fringe benefits.

Direct inquiries to:

**Dr. J. P. Long
Chairperson, Search Committee
Department of Pharmacology
College of Medicine
The University of Iowa
Iowa City, Iowa 52242**

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

POSITIONS OPEN

DEAN OF GRADUATE STUDIES AND RESEARCH

California State Polytechnic University, Pomona, a member of the California State University and Colleges system, announces the position of dean of graduate studies and research. Responsibilities include: planning, developing, evaluating, and coordinating graduate programs; coordinating the University's program of external grants, contract development, and funding. A doctorate degree from an accredited college or university and college or university teaching and administrative experience are required. Experience in research is desirable. Send curriculum vitae to **Dr. Kenneth H. Anderson, University Dean for Academic Affairs, California State Polytechnic University, Pomona, 3801 West Temple Avenue, Pomona, Calif. 91768, attn: Janet Kelly**, before 1 November 1976. *Affirmative Action/Equal Opportunity Employer.*

DIRECTOR OF THE INSTITUTE OF ECOLOGY (TIE), a nonprofit organization in Washington, D.C., sponsored by 109 educational and research institutions in the Western Hemisphere. Will be responsible for initiating and carrying out programs and activities which synthesize ecological concepts and relate them to public policy. TIE couples appropriate ecological talent to regional and global environmental concerns of legislators, government officials, resource managers, and the public. Send résumé to: **Dr. Philip L. Johnson, TIE Search Committee, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, Tenn. 37830.** *An Equal Opportunity Employer.*

DIRECTOR AND PROFESSOR DIVISION OF BIOLOGY KANSAS STATE UNIVERSITY

The Division of Biology, in the College of Arts and Sciences, has 45 faculty members encompassing all areas of biology. Undergraduate and graduate degrees are offered in biology, microbiology, and fisheries and wildlife biology. The director will be responsible for administrative leadership and future development in research, instruction, and service. Essential qualifications include an outstanding record of accomplishment in research and excellence in teaching, in addition to evidence of administrative ability. Candidates should submit a current curriculum vitae including the names of three persons qualified to discuss in depth the applicant's qualifications, by 15 November 1976. Applications or nominations should be addressed to **Dr. Brian Spooner, Chairperson, Biology Directorship Search Committee, c/o Dean of Arts and Sciences, Eisenhower Hall, Kansas State University, Manhattan, Kansas 66506.**

Kansas State University is an Affirmative Action Employer and earnestly solicits applications and nominations on behalf of qualified female and minority candidates.

ENTOMOLOGISTS: Two positions; assistant professorships; full-time; 12 months; including 1-month vacation; Ph.D. degree in entomology required. (i) Biological control; research, emphasis on insect pests of crops; teaching, undergraduate and graduate courses. (ii) Extension, emphasis on urban entomology. Details and application procedures from **Paul Dahm, Chairman, Department of Entomology (Positions BE), Iowa State University, Ames, Iowa 50011.** Telephone: 515-294-7400. Application deadline: 15 October 1976 or until positions are filled. *An Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT OF ANATOMY UNIVERSITY OF CALIFORNIA, IRVINE COLLEGE OF MEDICINE

The Department of Anatomy has openings for one senior and four junior regular faculty appointments. Accomplishment in fields related to mammalian somatosensory systems will be strongly preferred. For the junior positions, 2 years of postdoctoral research experience is required. Teaching responsibilities will entail instruction of medical and graduate students in gross anatomy or histology. *Applications from all qualified candidates are welcome; women and minorities are encouraged to apply.* Applications must include a curriculum vitae, references, and copies (three to five) of published works. Send applications to:

John E. Swett, Ph.D.
Department of Anatomy
California College of Medicine
University of California
Irvine, California 92717

POSITIONS OPEN

FACULTY POSITION—IMMUNOLOGY. Position for Ph.D. or equivalent degree, with postdoctoral experience in cellular immunology. Preference will be given to candidates with research interest in lymphocyte differentiation and/or membrane molecules and function in immune responses. Appointment initially on a yearly basis. Send curriculum vitae, research summary, and representative reprints as well as three letters of reference to: **Dr. Harold C. Miller, Department of Microbiology and Public Health, Michigan State University, East Lansing, Michigan 48824.**

Michigan State University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION NUTRITION/BEHAVIORAL SCIENCE

The Public Health Nutrition Program, School of Public Health, University of Minnesota, invites applications for a faculty position starting October 1976. Applications for this position are being accepted immediately. Academic training and experience in the fields of nutrition, behavioral science, and public health are required. A doctorate in one of these areas is desirable. Salary and academic rank are negotiable.

Responsibilities of this position include designing and implementing a behavioral science curriculum for public health nutrition students.

Send curriculum vitae and other supporting materials to **Robert Veninga, Ph.D., School of Public Health, 1360 Mayo Memorial Building, University of Minnesota, Minneapolis, Minnesota 55455.**

FACULTY POSITION

Immunologist, experienced, for senior position in Department of Periodontics. Applicant must have an interest in developing research program in the area of periodontal disease and in the teaching and training of graduate students. Salary will depend on qualifications. Send curriculum vitae and résumé of past and present research to **Dr. R. Vanarsdall, Acting Chairman, Department of Periodontics, School of Dental Medicine, University of Pennsylvania, 4001 Spruce Street, Philadelphia, Pa. 19174.** *An Equal Opportunity Employer.*

FACULTY POSITION IN BIOCHEMISTRY

The Department of Biochemistry of the School of Dental Medicine (University of Pennsylvania) is seeking two highly qualified biochemists for faculty appointment at the level of Assistant Professor and Assistant/Associate Professor. Candidates should have a Ph.D. and/or a D.M.D. and must be willing to develop superior dental research programs. Areas of preferred interest are in mineral and trace element metabolism, plaque and saliva chemistry, hormone biochemistry, and polysaccharide chemistry. Responsibilities will include participation in the teaching of general and oral biochemistry to dental students. The Department of Biochemistry is a well-equipped and active research unit that is closely associated with the Center for Oral Health Research, a federally funded research institute devoted to studying a wide range of oral problems. Interested applicants should send curriculum vitae, reprints, description of areas of research interest, and the names of three possible referees to **Dr. Irving M. Shapiro, Chairman, Department of Biochemistry, School of Dental Medicine, University of Pennsylvania, 4001 Spruce Street, Philadelphia, Pa. 19174.** *An Equal Opportunity Employer.*

FELLOW or RESEARCH ASSOCIATE—VIROLOGY: To participate in immunochemical studies on varicella virus and on mechanisms of pathogenesis. Ph.D. or M.D. required; tissue culture experience essential and familiarity with herpes-group agents desirable. Term: 1 to 3 years. Salary: \$12,000 to \$15,000. *Minorities and women are encouraged to apply.* Submit curriculum vitae and names of three references to: **Dr. Thomas H. Weller, Harvard School of Public Health, 665 Huntington Avenue, Boston, Mass. 02115.** *Harvard University is an Equal Opportunity/Affirmative Action Employer.*

INSTRUCTOR OR ASSISTANT PROFESSOR OF PHYSIOLOGY AND BIOPHYSICS. Doctoral degree, major in physiology, medical school teaching experience in renal and/or gastrointestinal and/or metabolic physiology required. Evidence of research interest and productivity in the physiology of metabolism, electrolytes, and hypertension is desired. Send curriculum vitae and three letters of recommendation to **Dr. George R. Meneely, Department of Physiology and Biophysics, Louisiana State University Medical Center, P.O. Box 33932, Shreveport, La. 71130.** *Equal Opportunity Employer.*

POSITIONS OPEN

HEAD

Department of Genetics and Cell Biology, College of Biological Sciences, University of Minnesota

Established scientist with proven research record sought to be department head, while maintaining an active research program. The department has 26 faculty members with broadly based research interests and has responsibility for administering strong graduate and undergraduate programs in genetics and cell biology. The department is located primarily in a new and well-equipped bioscience center and has adequate space and resources for expansion. Screening of applications will begin 1 October 1976, although applications will continue to be accepted after that date. Candidates should submit a curriculum vitae, list of publications, and the names of at least three references to: **Professor Huber Warner, College of Biological Sciences, 123 Snyder Hall, University of Minnesota, St. Paul, Minn. 55108.** *The University of Minnesota is an Equal Opportunity Employer.*

UNIVERSITY OF MICHIGAN Instructor/Assistant Professor

Individual with M.D. Board-certified in clinical and anatomic pathology. Teaching and research responsibilities in the Department of Pathology, University of Michigan Medical School. Candidate must have interest and some experience in immunological research. Responsibilities at the VA Hospital, Ann Arbor, Michigan, will be in the Clinical Laboratories. Code #1700H0. Send résumé to **Box 421, SCIENCE.** *A Nondiscriminatory, Affirmative Action Employer.*

UNIVERSITY OF MICHIGAN Instructor/Assistant Professor

Ph.D. in basic science field. Certification in histopathology. Experience in the direction and administration of a histopathology laboratory is required. Experience in the development of or implementation of new techniques in histopathology is required. Research, clinical and basic, in histochemical and related special procedures is desirable. Code #308U0. Send résumé to **Box 422, SCIENCE.** *A Nondiscriminatory, Affirmative Action Employer.*

ECOLOGIST

Primary responsibility will be in developing and conducting ecological lab and lecture courses for professionals participating in energy and radiation related mini-courses.

Generalists with a Ph.D. in ecology or environmental chemistry with the following qualifications are invited to apply:

- energy or environmental impact experience
- 1 to 3 years of teaching experience
- research or teaching experience in energy or radiation
- self-directed research interest.

The position offers:

- competitive salary
- generous benefits
- quality work and living environment in the mountains of East Tennessee
- reasonable autonomy.

Reply to:

**Employment Office
OAK RIDGE ASSOCIATED
UNIVERSITIES
P.O. Box 117
Oak Ridge, Tennessee 37830**

An Equal Opportunity Employer

POSITIONS OPEN

GERIATRICIAN

The University of Wisconsin Center for Health Sciences is seeking a physician to provide leadership in geriatrics on the Health Sciences campus. The primary responsibility will be to develop, integrate, and coordinate a broad set of programs in research, training, and service. The position will include an academic appointment to the appropriate department within the Medical School and the Associate Directorship of the Faye McBeath Institute on Aging. Rank and salary are dependent on qualifications. Interested persons should submit letters and a curriculum vitae to **Dr. John Marshall, Chairman of the Geriatrics Search Committee, Department of Psychiatry, University of Wisconsin Medical School, Madison, Wisconsin 53706. An Equal Employment Education Institution Title IX/VI.**

WANTED: Established INVESTIGATOR in viral and/or chemical oncology with interests in establishing in vitro carcinogenesis research programs in a hospital research setting. Ohio. Salary commensurate with experience. Send reply to

Box 386, SCIENCE

LAB TECHNICIAN NEUROSCIENCE DEPARTMENT

To perform various biochemical laboratory procedures. Responsibilities will include working with and sacrificing rabbits, cats, rats, and frogs. B.S. degree required; 1 year of related experience and some experience in the use of radioisotopes, ultracentrifuge techniques, and previous work with animals preferred. We offer excellent benefits, salary commensurate with experience and 37½-hour work week. Send résumé to: **Helena Wallace, Personnel Office, CHILDREN'S HOSPITAL MEDICAL CENTER, 300 Longwood Avenue, Boston, Mass. 02115. An Affirmative Action/Equal Opportunity Employer.**

MICROBIOLOGIST, Ph.D.

(Fermentation—Antibiotics)

For this high priority program, at least 1 to 5 years of experience are required, at the Ph.D. level or equivalent, in research on antibiotic producing organisms involving fermentation and the production of new antibiotics. Background in biosynthetic processes and strain selection desirable.

Salary will be commensurate with education and experience, plus generous company paid benefits including profit sharing and tuition assistance.

Please send résumé, including salary history and requirements, in strict confidence to: **Manager, Research Personnel, SCHERING RESEARCH CENTER, 60 Orange Street, Bloomfield, N.J. 07003.**

SCHERING-PLOUGH
CORPORATION

WE ARE AN EQUAL OPPORTUNITY EMPLOYER M/F

SOUTHERN RESEARCH INSTITUTE PHARMACOLOGIST

Applications are invited for a full-time position in the Biochemical Pharmacology Division for a well-trained person interested in committing his/her efforts to study of the pharmacology of anticancer drugs. The work involves development of assays for such drugs and determination of their distribution, pharmacokinetics, and metabolism.

Applicants should have a Ph.D. in pharmacology and two or more years of postdoctoral experience. Please send recent curriculum vitae and salary requirements to:

Personnel Office
Southern Research Institute
2000 Ninth Avenue South
Birmingham, Alabama 35205

An Equal Opportunity Employer, M/F

POSITIONS OPEN

MEMBRANE BIOPHYSICS

Applications are invited for the position of **assistant or associate professor** in the Faculty of Medicine, Division of Basic Sciences, from persons with commitments to teaching and research in excitation, ion transport, synaptic events, or related fields. An independent research program is essential; collaboration with others in the Faculty of Medicine is encouraged. Our neurobiology group currently includes faculty from anatomy, biochemistry, membrane biophysics, pharmacology, physiology, and clinical investigators. Excellent marine research facilities are also available. Teaching responsibilities will include the biophysics of nerve and muscle to first-year medical students.

Curriculum vitae and names of three referees should be forwarded no later than 15 October 1976 to:

Biophysics Selection Committee
c/o Dr. James Orr, Associate Dean
Basic Medical Sciences
Faculty of Medicine
Memorial University of Newfoundland
St. John's, Newfoundland, A1C 5S7
Canada

NEUROANATOMIST: Medical school full-time faculty position with major responsibility teaching medical neurobiology. An active research program is highly desirable. Assistant professor rank; salary negotiable, starting 1 January 1977. Send application and three letters of recommendation to: **Dr. P. G. Iatridis, Director, Northwest Center for Medical Education, Indiana University School of Medicine, 3400 Broadway, Gary, Indiana 46408. Indiana University is an Equal Opportunity/Affirmative Action Employer.**

PLANT PHYSIOLOGIST. The Department of Botany, University of California, Davis, invites applications for a faculty position in plant physiology at the assistant professor level commencing 1 July 1977. Candidates must have demonstrated potential for excellence in research and teaching, a strong background in cell physiology particularly in problems associated with functioning of plant cell membranes, for instance in phloem translocation, solute accumulation, energy transduction. Candidates should be prepared to teach plant physiology and either general botany or general biology and to direct graduate student research. The Ph.D. is required at the time of appointment. Applicants must submit a curriculum vitae, list of publications, graduate and undergraduate transcripts, a résumé of research and teaching goals, and request that three letters of recommendation be sent to **Dr. Bruce A. Bonner, Chairman of the Search Committee, Department of Botany, University of California, Davis, California 95616.** Closing date for applications is 1 November 1976. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL NEUROBIOLOGY POSITION: (Ph.D. required.) Available immediately for studies on basic physiology and anatomy of motor and sensory systems. Excellent facilities are available for electron microscopy, electrophysiology, and metabolic analysis of neuronal tissue. Send curriculum vitae and references to **Dr. John S. Kauer, Department of Surgery, Section of Neurosurgery, Yale University School of Medicine, 333 Cedar Street, New Haven, Connecticut 06510. Yale University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION immediately available for Ph.D. with training in molecular biology, experience with animal cell system, and an interest in a coordinated biochemical and electron microscopic approach to regulation of RNA synthesis. Please send curriculum vitae and names and addresses of two references to **Dr. Jerry E. Manning, Department of Molecular Biology and Biochemistry, University of California, Irvine, Irvine, California 92717. Applications from qualified candidates are welcome; women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION: Research on models of photosynthetic membranes; 1 December 1976 to 31 May 1978; salary about \$10,750. Experience in biophysical aspects of photosynthesis, membranes, membrane models, spectroscopy, photochemistry, or physical biochemistry required. Must be willing to supervise and evaluate undergraduate research assistants. Send curriculum vitae, sample publications, and three letters of reference to **Dr. R. A. Cel-larius or Dr. J. J. Kelly, The Evergreen State College, Olympia, Wash. 98505. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

NEUROLOGIST

The University of California, College of Medicine, is recruiting for a Neurologist to be the chief of the clinical, teaching, and research programs in neurology at the Long Beach Veterans Administration Hospital and to hold an appointment at the associate or professor level. Board-certification and evidence of research productivity, teaching ability, and professional competence required. *Applications from all qualified candidates welcome; minorities and women are encouraged to apply.* Send curriculum vitae and names of three references to **Arnold Starr, M.D., Department of Neurology, University of California, Irvine, 101 City Drive South, Orange, California 92668.**

Pharmacokinetics/ Drug Metabolism

Research opportunities now available for scientists at the B.S./M.S. level (or equivalent) with training and experience in pharmacokinetics or drug metabolism.

Salary will be commensurate with education and experience; company benefits include profit sharing and educational assistance.

Please send résumé, including salary requirements, in strict confidence, to: **Manager, Research Personnel, Schering Research Center, 60 Orange Street, Bloomfield, New Jersey 07003.**

SCHERING-PLOUGH
CORPORATION

WE ARE AN EQUAL OPPORTUNITY EMPLOYER M/F

POSTDOCTORAL—MOLECULAR GENETICS. Immediate opening. Research on *Pseudomonas* plasmids and membrane proteins. Background in bacterial or phage genetics. Nucleic acid biochemistry or membrane biochemistry desirable. Salary at NIH postdoctoral scale. Send curriculum vitae and references to **Dr. James A. Shapiro, Department of Microbiology, THE UNIVERSITY OF CHICAGO, Chicago, Illinois 60637. From the time of its original charter, the principle of the University of Chicago has been to make appointments without regard to race, color, religion, sex, or national origin.**

POSTDOCTORAL RESEARCH ASSOCIATE

Postdoctoral training and research opportunities in chemical carcinogenesis of mammalian cells in tissue culture in the metabolic activation and detoxification of carcinogens in vitro. The objective of this project is to investigate the role of the microsomal mixed function oxidases in the transformation of cells in culture by chemicals. Applicants must have a strong background in biochemistry with experience in enzymology and/or tissue culture. Available fall/winter 1976. Send curriculum vitae and names of three references to **Dr. Paul F. Hollenberg, Department of Biochemistry, Northwestern University Medical and Dental Schools, 303 East Chicago Avenue, Chicago, Illinois 60611.**

REPRODUCTIVE ENDOCRINOLOGIST

Duties will include teaching physiology to veterinary and graduate students, independent and collaborative research, and graduate training. Rank and salary commensurate with qualifications. Ph.D. or equivalent is required. Postdoctoral experience, training in radioimmunoassay, and interest in neuroendocrinology are desirable. Position to be filled in late 1976 or early 1977. Applicants should submit a curriculum vitae, a statement of research interests, and a list of three references by 15 October 1976 to: **Dr. Gary Jackson, Department of Veterinary Anatomy, Physiology, and Pharmacology, University of Illinois, Urbana, Illinois 61801. Telephone: 217-333-0745. The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from minorities and women.**

Gillette Medical Evaluation Laboratories has an immediate opening for a

TOXICOLOGY TESTING UNIT CHIEF

Qualified individuals should have an M.S. or Ph.D. with background in toxicology. The individual will be responsible for designing, supervising, and interpreting animal acute, subchronic, and chronic safety and efficacy testing in animals (dermal, ophthalmic, inhalation, and so forth).

In addition to involvement in multidisciplinary testing projects, the individual will assist in research programs aimed at developing new testing methodology.

Gillette Medical Evaluation Laboratories have been located in suburban Washington, D.C., for over 10 years, and have recently undergone a second major expansion into new and well-equipped working facilities.

Salary commensurate with qualifications and experience. Send detailed résumé, including salary desired, in strict confidence to the **Personnel Department**:

**GILLETTE MEDICAL
EVALUATION LABORATORIES**
1413 Research Boulevard
Rockville, Maryland 20850

An Equal Opportunity/Affirmative Action Employer

Gillette Medical Evaluation Laboratories has an immediate opening for a

TOXICOLOGIST

in the Office of Medical Review. Responsibilities include the design of safety and efficacy tests and the evaluation of such test results on products marketed worldwide by The Gillette Company. The product types include cosmetics, drugs, devices, appliances, household items, and hospital supplies.

A Ph.D. in toxicology or pharmacology is required. Experience in product safety evaluations and familiarity with pertinent government regulations is desirable but not required. A definite proficiency in written and oral communications is a necessary requirement for this nonlaboratory position.

Gillette Medical Evaluation Laboratories have been located in suburban Washington, D.C., for over 10 years, and have recently undergone a second major expansion into new and well-equipped working facilities.

Qualified applicants are requested to send a detailed résumé, including salary desired, in strict confidence to the **Personnel Department**:

**GILLETTE MEDICAL
EVALUATION LABORATORIES**
1413 Research Boulevard
Rockville, Maryland 20850

An Equal Opportunity/Affirmative Action Employer

Oak Ridge Associated Universities announces a conference on FUTURE STRATEGIES FOR ENERGY DEVELOPMENT

**Oak Ridge, Tennessee
October 20-21, 1976**

Oak Ridge Associated Universities (ORAU) announces an international conference on the fundamental direction of U.S. energy policy: big or small? The traditional position views large-scale central energy generation as the appropriate backbone of our system. In sharp contrast are those who believe the social and environmental costs of central energy generation are too great, lead times too long, capital requirements too large. Speakers include: Kenneth Boulding, Paul Craig Wolf Haeefe, C.S. Holling, Thomas Lee, Amory Lovins, Samuel Schurr, and Alvin Weinberg. The conference is being supported by the Rockefeller Foundation, Xerox Corp., and ORAU. \$90 fee includes proceedings, room and meals (\$35 for local participants). For information:

**Energy Conference
ORAU
P.O. Box 117
Oak Ridge, TN 37830**
Attendance is limited.

mRNA Termini (caps)

Name	Cat. No.	5 units	5x5 units
m ⁷ G(5')ppp(5')Cm	4607	\$40.00	\$160.00
m ⁷ G(5')ppp(5')Um	4609	40.00	160.00
m ⁷ G(5')ppp(5')Am	4633	40.00	160.00
m ⁷ G(5')ppp(5')Gm	4631	40.00	160.00
m ⁷ G(5')ppp(5')N ⁶ mAm	4611	50.00	200.00

Or their precursors

Name	Cat. No.	5 units	5x5 units
m ⁷ G(5')ppp(5')A	4637	\$35.00	\$150.00
m ⁷ G(5')ppp(5')G	4635	35.00	150.00
G(5')ppp(5')Am	4641	30.00	125.00
G(5')ppp(5')Gm	4639	30.00	125.00
G(5')ppp(5')A	4645	25.00	100.00
G(5')ppp(5')G	4643	25 units	40.00

We have them all in stock for immediate delivery.

excellence in biochemistry



P.L. biochemicals, inc.
1037 WEST MCKINLEY AVENUE, MILWAUKEE, WIS. 53205
® Call (414) 271-0667 Telex 26881

AAAS Memberships and Subscriptions

- Whenever you write us about your membership or subscription, please attach a **Science** address label to assure prompt service.

- **Mail to:** Membership and Subscription Records, AAAS, 1515 Massachusetts Ave., NW, Washington, D.C. 20005.

- ☐ **Change of Address:** Please provide 6 weeks' notice. Paste an address label from a recent issue in the space provided. Print new address below.

- ☐ **Query:** If you have a question, place your address label here and attach this form to your letter.

- **To join or subscribe:** Mail this form with your payment, mark the appropriate boxes, and print your name and address in the space below. (For renewals, attach label.)

- ☐ **Membership rates** (individual only)
 - ☐ \$25 USA ☐ \$35 Canada, PUAS ☐ \$38 Foreign
 - ☐ \$55 Air-surface delivery via Holland

- ☐ **Subscriber rates**
 - ☐ \$50 USA ☐ \$60 Canada, PUAS ☐ \$63 Foreign
 - ☐ \$80 Air-surface delivery via Holland

- ☐ Payment enclosed ☐ Bill me later

Name Please print

Address

City State Zip

MR09

**ATTACH
LABEL
HERE**

POSITIONS OPEN

POSTDOCTORAL POSITION—BIOCHEMISTRY: Full-time research position available immediately for study of lipid enzymes. Background in enzymology required. Send curriculum vitae, bibliography, and names of four references to **Dr. H. Schlenk, The Hormel Institute, University of Minnesota, 801 16th Avenue, NE, Austin, Minnesota 55912. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE with competence in enzymology to study reconstitution of purified adrenal P-450 cytochromes and associated electron transfer proteins. Emphasis on role of membrane and spectroscopic techniques. Available 1 October. Send references and curriculum vitae to **Dr. C. Jefcoate, Department of Pharmacology, University of Wisconsin Medical School, Madison, Wisconsin 53706. An Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE position in area of in vitro carcinogenesis. Apply to **Dr. P. S. Sabharwal, Biology Department, University of Kentucky, Lexington, Kentucky 40506. An Equal Opportunity Employer.**

RESEARCH ASSOCIATE—A postdoctoral position in biochemistry-biophysics is open, starting 1 January 1977, for a study in the area of neural development and neurohormones in insects. Please send curriculum vitae and names of references to **R. W. Newburgh, Graduate School, Oregon State University, Corvallis, Oregon 97331. An Affirmative Action/Equal Opportunity Employer.**

WANTED: Ph.D. RESEARCH ASSOCIATE with postdoctoral experience in cell culture and biochemistry. Experience in electron microscopy preferred. Interests in carcinogenesis with mammalian epithelial systems. Salary commensurate with experience. Ohio. Send reply to **Box 385, SCIENCE.**

RESEARCH BACTERIOLOGIST: To conduct applied research in bacteriology for leading veterinary manufacturing company. D.V.M., Ph.D., or equivalent in microbiology; research experience desirable. Salary commensurate with education and experience. Full range benefits include profit sharing. Send résumé in confidence to: **Charles F. Moore, Personnel Director, JENSEN-SALSBERY LABORATORIES, Division of Richardson-Merrell Inc., P.O. Box 167, Kansas City, Missouri 64141. An Equal Opportunity Employer, M/F.**

RESEARCH BIOCHEMIST

Immediate opening in Division of Nuclear Medicine, University of Arizona Medical Center. Ph.D. or M.S. in biochemistry. Position involves fractionation and characterization of radiolabeled antineoplastic agents. Experience using Sephadex column chromatography, electrophoresis, or ultracentrifugation is desirable. Experience in radiochemistry is not a prerequisite. Salary is commensurate with degree and experience; funding provided by NCI contract with expected duration of 3 years. Interested applicants should submit curriculum vitae and three letters of reference to **James M. Woolfenden, M.D., Division of Nuclear Medicine, University of Arizona Medical Center, Tucson, Arizona 85724. An Equal Opportunity/Affirmative Action Employer.**

RESEARCH PROFESSOR in Energy and Atmospheric Environment Center to provide supplementary leadership in areas of expertise. Requires experience in areas of aerosol physics, atmospheric photochemistry, physical meteorology especially as related to clouds and fog, development of instrumentation; a demonstrated record of recent success in securing government or industrial contracts and in administering the activities of an R & D group; and Ph.D. or equivalent experience. Minimum starting salary \$26,000. Deadline for applying: 30 September 1976. Send résumé to **Twyla Harrison, Personnel Department, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506. An Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

RESEARCH TECHNOLOGIST: M.S. degree in science or B.S. degree with experience in any of the following: (i) allotypes and passive hemagglutination, (ii) immunology of collagens and immunochemistry, (iii) isoelectric focusing, (iv) radioimmunoassay, or (v) electron microscopy and tissue culture. Research area of Southeastern university. Send résumé to: **M. Sheriffs, A.R.R.T. Employment Division, Department of Personnel, Medical University of South Carolina, 80 Barre Street, Charleston, S.C. 29401. An Equal Opportunity Employer**

SENIOR POSITION

Applications are invited for a senior faculty position in the neurosciences in the Department of Anatomy, Wayne State University School of Medicine, starting in 1976 or 1977. Primary teaching responsibility will be in neuroanatomy. The applicant should have a funded ongoing research program. Salary commensurate with qualifications. Applicants should send a curriculum vitae, bibliography, names of three references, and a statement of research plans to **Dr. Harry Maisel, Department of Anatomy, Wayne State University School of Medicine, 540 East Canfield, Detroit, Michigan 48201. An Equal Opportunity/Affirmative Action Employer.**

VICE PRESIDENT FOR RESEARCH/ DEAN OF GRADUATE STUDIES MONTANA STATE UNIVERSITY, BOZEMAN

Duties: To administer and advance research and graduate studies, to represent the research and graduate programs of the University to their various constituencies, including funding sources and state government.

Qualifications: Doctoral or terminal professional degree, demonstrated research productivity, professional creativity, breadth of academic interest, experience in dealing with funding agencies and administering research programs, experience in a doctoral graduate program.

The institution: Montana State University is the state's land grant institution, a broad-based, multifaceted University, and the science-technology center of the Montana University system. Enrollment: about 9000 students, of whom 600 are graduate students. Doctoral degrees are offered in 19 fields, master's degrees in 33. The grant and contract research volume is approximately \$6 million annually, in addition to the Agricultural and Engineering Experiment Stations.

Position available: 1 January 1977.

Closing date: 29 October 1976.

Send letter of application and résumé to:

**Dr. Irving E. Dayton
Vice President for Academic Affairs
Montana State University
Bozeman, Montana 59715**

An Equal Opportunity/Affirmative Action Employer

TRAINEESHIPS

POSTDOCTORAL TRAINEESHIPS

Selected trainees participate in research on **Cardiovascular/respiratory/cellular and/or biochemical mechanisms in altered metabolic states** with opportunity to work with faculty in biochemical, physiological, pharmacological, and bioengineering research in molecular, cellular, organismal, and/or intact animals. Supported in part by: National Service Award for Research Training. To apply for fellowships, send résumé and three letters of recommendation to: **Dr. X. J. Musacchia, Director, John M. Dalton Research Center, University of Missouri, Columbia, Missouri 65201.**

An Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

ELECTRON MICROSCOPIST: NRSA postdoctoral fellowship available to study the structure and function of vertebrate photoreceptors and pigment epithelium. Appointment must begin between October 1976 and June 1977; 2- or 3-year appointment, \$10,000 plus per annum. Send curriculum vitae or résumé and description of predoctoral experience to:

**Dr. Scott Basinger
Department of Ophthalmology
Baylor College of Medicine
Houston, Texas 77030**

FELLOWSHIPS

Postdoctoral Fellowships

The Cardiovascular Institute at the Boston University School of Medicine is seeking qualified candidates to pursue postdoctoral research related to the basic science of cardiovascular disease, including studies in hypertension, atherosclerosis, and coronary artery disease. Training is sponsored by the NIH National Research Service award program with a stipend range of \$10,000 to \$14,000 per annum. Applicants must be U.S. citizens or non-citizen nationals, or possess a permanent visa and have completed doctoral training (M.D., Ph.D., or equivalent). For information and application forms write: **William B. Hood, Jr., M.D., Program Director, Basic Science Cardiovascular Training Program, Boston University School of Medicine, 80 East Concord Street, Boston, Mass. 02118.**

An Equal Opportunity Employer

POSTDOCTORAL FELLOWSHIPS

NIH-supported postdoctoral fellowships immediately available for the study of **immunology of host-parasite relationships**. Strong background in immunology and/or parasitology necessary. Appointments on annual basis, renewable. U.S. citizens or permanent residents.

Send curriculum vitae and names of three referees to **E. J. L. Soulsby, Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, Pa. 19174.**

The University of Pennsylvania is an Equal Opportunity Employer.

SCIENTIFIC EXCHANGES

**SCIENTIFIC EXCHANGES
WITH U.S.S.R. AND EASTERN EUROPE
Commission on International Relations (USSR/EE)
National Academy of Sciences
2101 Constitution Avenue, NW
Washington, D.C. 20418**

Applications are invited from American scientists interested in making professional visits during the period September 1977 through August 1978 in the USSR, Bulgaria, Czechoslovakia, Hungary, Poland, Romania, or Yugoslavia. Research visits are 5 to 12 months; a limited number of short-term (1-month) visits are also available. Applicants must be U.S. citizens and have a doctoral degree in the natural or social and behavioral sciences. Deadline for receiving complete applications is 19 November 1976.

MARKET PLACE

NEW Universal Thermometers

Models BAT-8F, BAT-8C

DIGITAL readout stops errors. Portable, accurate; readings in 2 secs. Battery or AC. 0-700°F or 0-400°C.

Use any copper/constantan thermocouple or Bailey microprobes.

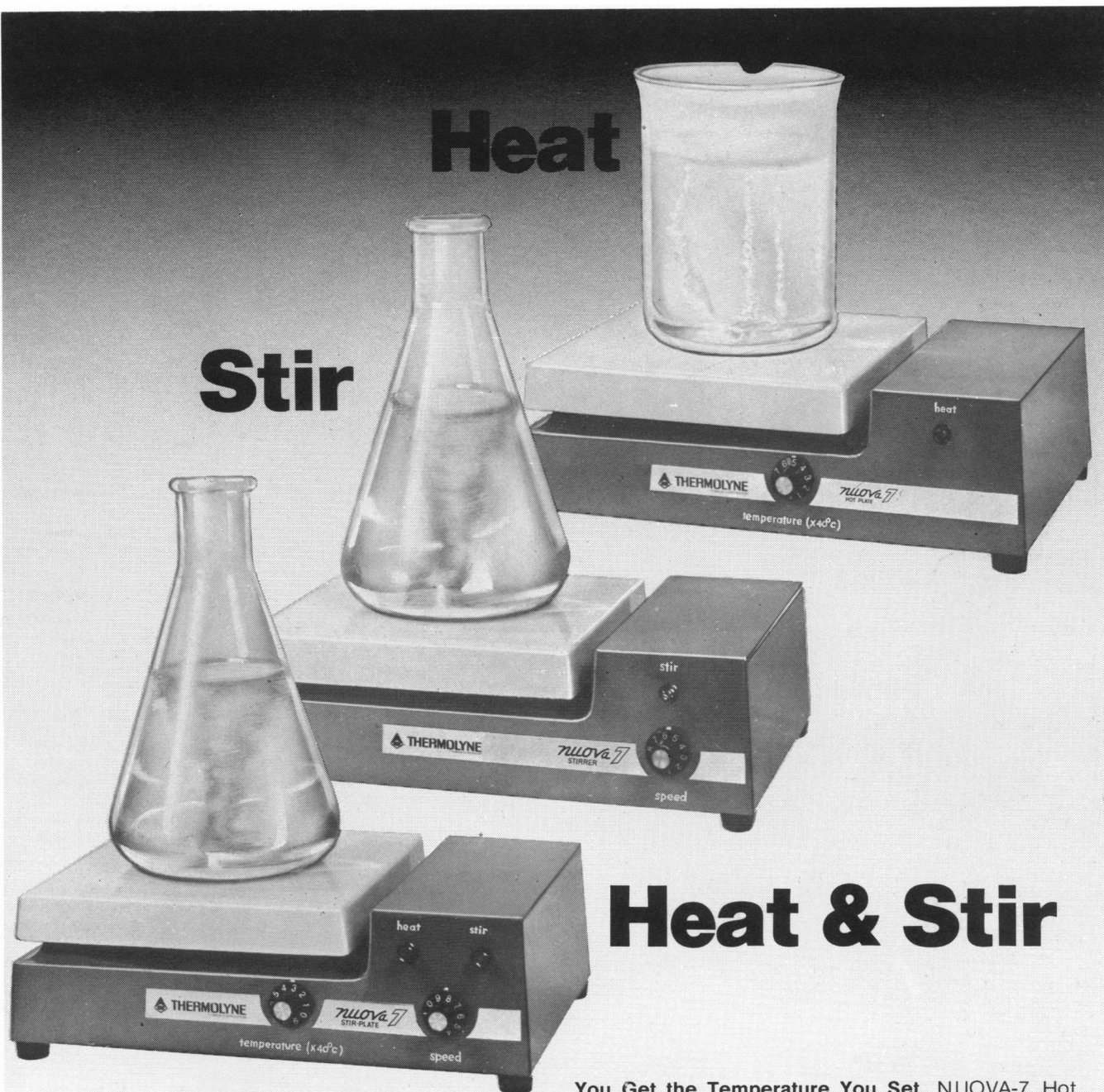
The Modern Way to Measure

BAILEY INSTRUMENTS INC.

Saddle Brook, N.J. 07662 • (201) 845-7252



Circle No. 1 on Readers' Service Card



When you invest in heating and stirring apparatus, get the best.

Our NUOVA-7 Series Hot Plates, Stirrers and Stir Plates have many dramatically different features . . . attractive, low profile design . . . side mounted controls and stirring motors . . . all vital working parts securely protected from spill damage . . . fast heat-up . . . solid state speed control assures constant stirring . . . 7" square unbreakable, Nucerite®-coated top plates.

Circle No. 11 on Readers' Service Card

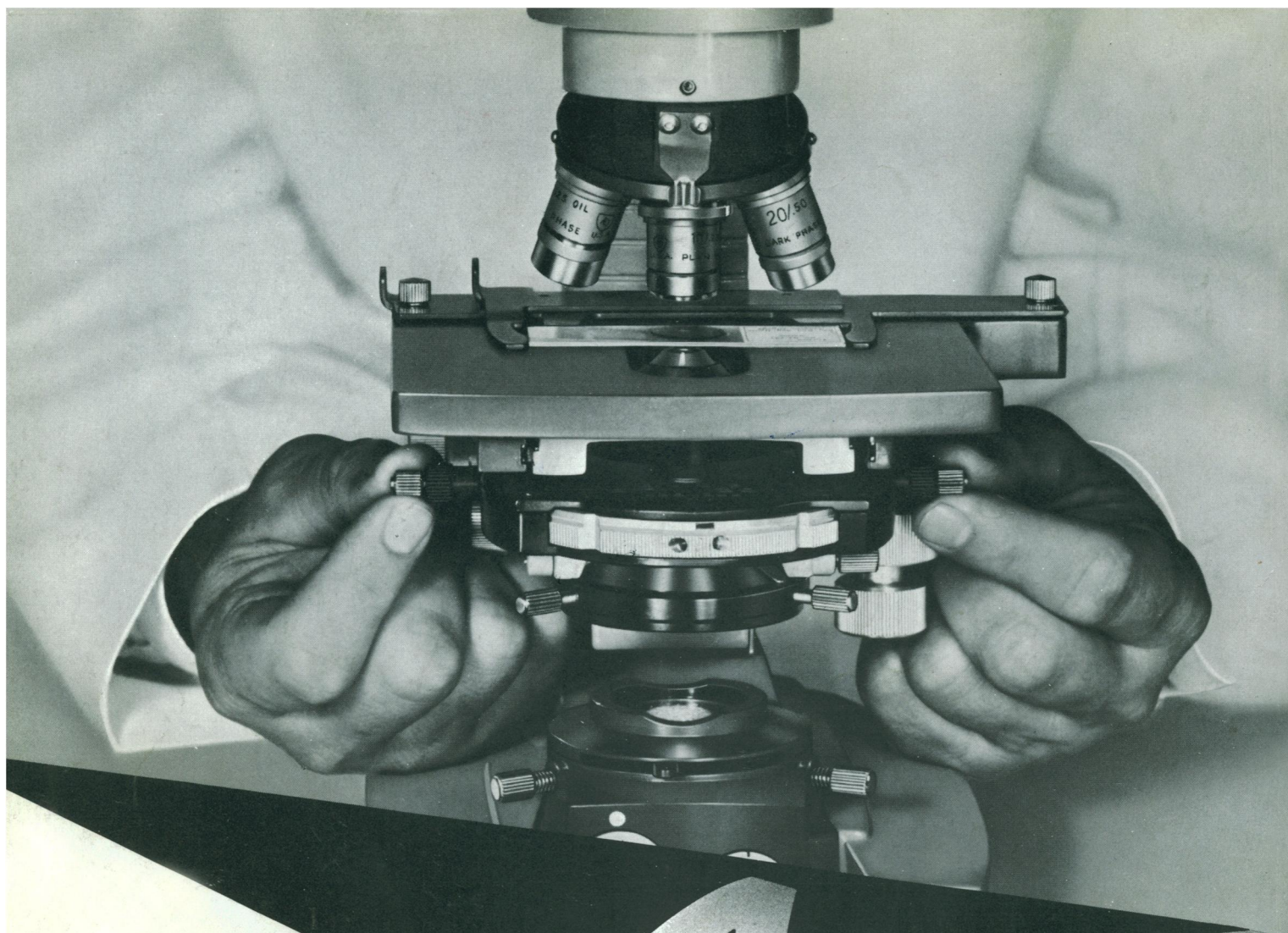
You Get the Temperature You Set. NUOVA-7 Hot Plates and Stir Plates heat up fast . . . 371°C in 8 minutes. Positive, no-drift temperature controls hold surface temperatures to within $\pm 3^{\circ}\text{C}$. A demand-type thermostatic control rapidly responds to any change in surface area temperature.

You Get the Stirring Speed You Set. Right away with no time lag or readjusting, NUOVA-7 Stirrers and Stir Plates have a superior solid state stirring speed control that responds automatically to each setting from 60 to 1200 RPM.

Attractive, Whisper-Quiet and Very Efficient. The NUOVA-7 low profile units are the design of tomorrow available today through your laboratory dealer.

Write Thermolyne, ask for Catalog No. 600.

 **THERMOLYNE**
SYBRON CORPORATION
2555 KERPER BOULEVARD, DUBUQUE, IOWA 52001



You center annuli only once with the **AO PHASESTAR®** microscope.

Once you align each of the four annuli to its corresponding objective, you can rotate the microscope's turret to any objective without doing it again—a great timesaving convenience you'll really appreciate when working with living material.

The AO PHASESTAR microscope lets you view transparent unstained specimens with remarkable contrast and sharp definition of detail. And if you want to examine stained specimens under normal brightfield, all you need do is turn the substage turret.

The microscope accepts any combination of phase or non-phase objectives without disrupting parfocality. And, of course, it's adaptable to a variety of alternate parts or accessories. Illumination can be 20-watt tungsten halogen with the Series 10 or 100-watt tungsten halogen with the Series 20.

Ask your AO dealer representative for a demonstration of the AO PHASESTAR microscope. Or write for a brochure to American Optical, Scientific Instrument Division, Buffalo, NY 14215.

Circle No. 192 on Readers' Service Card

AO
American
Optical