

**FISKE ASSOCIATES, INC.**

QUAKER HIGHWAY, UXBRIDGE, MASS. 01569 (617) 278-2482

#### QF OSMATIC

The Fiske QF OSMATIC™ Clinical Osmometer with "QUIK FLIK"™ thermodynamic programmer is specifically designed for routine use in today's busy hospital clinical laboratory. Small-12" x 15½"—and only 6½" high. QUIK FLIK operation is keyed to color coded galvanometer scales and panel instructions which conform to the internationally accepted Fiske method for uniform freezing point analysis.

#### H-K RECORDING RESPIROMETER

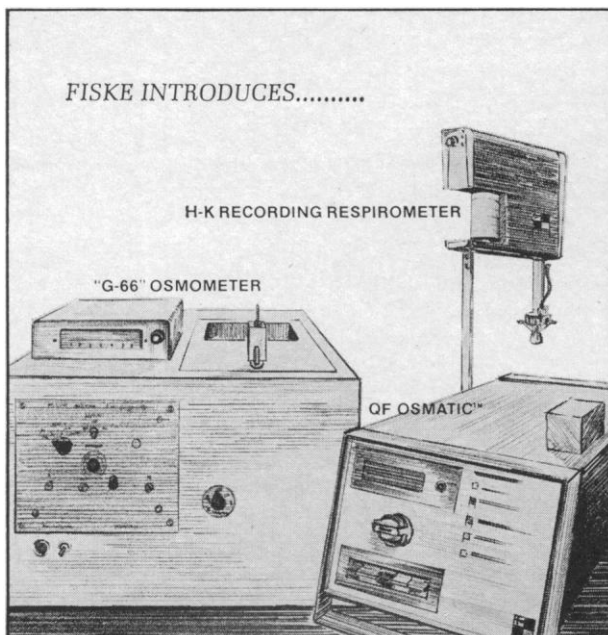
The Fiske H-K RECORDING RESPIROMETER features a revolutionary new glass membrane transducer. Designed to accept standard Warburg vessels and fit standard Warburg or other baths. Gas uptake or evolution, as a function of time, is recorded on the built-in recorder. Sensitivity is in the microliter range.

#### "G-66" OSMOMETER

Now known as the Fiske RESEARCH OSMOMETER, this high performance instrument incorporates improvements in measuring circuit design, and bath temperature control to permit unparalleled direct reading fidelity in the range of 0-4000 milliosmols per kilogram.

Only Fiske Osmometers carry a standard FISKE FIVE YEAR PROTECTION PLAN CERTIFICATE.

See us at booth U-8, FASEB Meeting



## Personnel Placement

**POSITIONS WANTED.** 25¢ per word, minimum charge \$4. Use of Box Number counts as 10 additional words. Payment in advance is required.

**POSITIONS OPEN.** Rates listed below—no charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Minimum ad: 1 inch. Ads over 1 inch will be billed to the nearest half inch. Frequency rate will apply only to repeat of same ad. No copy changes. Payment in advance is required except where satisfactory credit has been established.

Single insertion \$75.00 per inch  
4 times in 1 year 70.00 per inch

**COPY** for ads must reach SCIENCE 4 weeks before issue date (Friday of every week).

Send copy for Personnel Placement advertising to:

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

Replies to blind ads should be addressed as follows:

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

#### POSITIONS WANTED

**Microbiologist-Biochemist.** 32. Ph.D. 1965. Microbial exoenzymes. Publications. Postdoctoral experience. Seeks research/teaching/administrative position. East, West, Midwest. Available in June 1968. Box 77, SCIENCE. 4/5

#### POSITIONS WANTED

**Actinomycetologist.** Ph.D., research, teaching. Antibiotics interest. Publications. Box 111, SCIENCE. X

**Attorney-Scientist.** Ph.D. in chemical engineering, seeks position in legal/scientific interdisciplinary areas, for example, environmental control, R&D administration or contracts, patents. Diversified experience in patents, licensing, chemical research, computer applications. Box 112, SCIENCE. X

**Biochemist.** Ph.D. Academic and industrial experience, biochemical pharmacology, neurochemistry, intermediary metabolism, mental illness. Publications. Prefers hospital, government or academic research or quality control appointment and/or teaching. Box 113, SCIENCE.

**Biologist.** Ph.D. 1968. Seeks western teaching position. Ecology, evolution, systematics, entomology, invertebrate zoology. Publications. Box 114, SCIENCE. X

**Biologist.** Ph.D., ample experience, seeks teaching position. Special interest—genetics, cytology. P.O.B. 2071, Statesboro, Georgia 30458. X

**Biologist** (population genetics) completing Ph.D. Eight years' college teaching experience. Prefers south or southwest. Desires research and/or teaching position. Box 115, SCIENCE. X

**Ph.D. Clinical Chemist-Biochemist** seeks position in hospital with service, teaching, and research. Box 116, SCIENCE. X

**Comparative or Cellular Physiologist, Ichthyophysiologist;** 30; 1968 Ph.D., 2 years of college teaching, 1 year of research. Publications. Seeks teaching-research or postdoctoral position. Start September. Box 117, SCIENCE. X

**Microbiologist.** Ph.D., 1965. Three years' industrial research in fermentation chemistry. Seeks academic or industrial position in the South. Box 118, SCIENCE. X

**Neuropsychologist.** Ph.D. 1963. Strong interests in brain function, learning, electroanesthesia, sleep. Teaching experience. Publications. Seeks research or academic position. West. Box 119, SCIENCE. X

#### POSITIONS WANTED

**Animal Physiologist** M.S. desires position as research assistant for physiologist or biochemist. Publications. Box 121, SCIENCE. X

Ph.D. 1967 **Animal Nutrition-Physiology**, biochemistry. Research—endocrine control, energy, lipid metabolism. Seeks teaching/research. Box 122, SCIENCE. X

**Business Administrator.** university, hospital, medical institute background. Creative and effective. Box 124, SCIENCE. X

**Microbiology** Ph.D.; ASCP; university teaching, human disease research, head section 300-bed hospital or university appointment **WOODWARD PERSONNEL BUREAU**, 185 North Wabash, Chicago 60601.

**Microbiology Professor**, experienced also in molecular biology, microbial genetics and radiation biology, seeks senior teaching or research position. Box 120, SCIENCE. X

**Molecular Virologist—Microbiologist.** Recent Ph.D. with postdoctoral experience. Tissue culture, viral biosynthesis, tumorigenesis, interferon and interference, immunology. Publications. Seeks academic research position, United States or Canada. Box 98, SCIENCE. 4/5

**Physiologist.** Ph.D. Desires teaching/research/administrative position in physiology, pharmacology or biology. Publications. Teaching experience. Box 123, SCIENCE. X

**Chemist-Biochemist.** Fifteen years of teaching with publications and grants. Wishes professorship with emphasis on teaching, possibly administration. Box 72, SCIENCE. X

**Biophysicist-Physiologist.** M.D., Ph.D., seeks senior academic or other research position. Twelve years' broad experience in basic and applied research at top government and academic institutions. Publications on tracer kinetics, mathematical models, computer applications, endocrinology. Medical and bioengineering teaching experience. Box 125, SCIENCE. 4/12

#### POSITIONS OPEN

##### VETERINARY PATHOLOGIST

Hazleton Laboratories, a subsidiary of TRW Inc. and a rapidly expanding company specializing in the life and environmental sciences, needs Veterinary Pathologists with DVM and Ph.D. degrees. Applicants still completing board eligibility requirements will also be considered. Positions involve gross and microscopic evaluation of tissues from a variety of laboratory animals; design of experiments; consultation with other staff members regarding research in general and inhalation toxicology, reproduction-teratology, and method development. Opportunity for publications and scientific meetings attendance. Good facilities including automated clinical chemistry and electron microscopy labs. Salary commensurate with experience and education. Please send resume to:

Vice President for Personnel  
**HAZLETON LABORATORIES, INC.**  
P.O. Box 30  
Falls Church, Virginia 22046  
(Metropolitan Washington, D.C.)  
An Equal Opportunity Employer

## M.D. PHARMACOLOGIST

Cyanamid International needs one Research-minded M.D. to join its medical research and development international group.

Must be well acquainted with the designing of animal experiments in Pharmacology and Toxicology.

Send complete resume including salary requirements to: Mr. Fred Rella

## LEDERLE LABORATORIES AMERICAN CYANAMID CO.

Pearl River, New York

An Equal Opportunity Employer

POSITIONS OPEN

## BIOCHEMIST Ph.D.

Leading manufacturer of enzymes, fermentation products and chemical specialties.

Opportunity for Biochemist to head R&D team in isolation and characterization of enzymes . . . enzyme and protein chemistry background and experience in plant carbohydrates desirable. Up to 5 years' experience.

Distinct opportunities for professional growth. Salary open. Excellent benefit programs including profit sharing.

Convenient suburban N.J./N.Y. location

All replies will be held in strict confidence. Please submit resume to Personnel Dept.

### WALLERSTEIN CO.

Division of Baxter Laboratories, Inc.

STATEN ISLAND, N.Y. 10303

An Equal Opportunity Employer

#### ENGINEERS, PHYSICISTS, AND TECHNICIANS

Recent expansion of The University of Texas McDonald Observatory at Mount Locke has created a need for operating personnel. Present needs include:

1) Superintendent to be responsible for the maintenance and operation of Observatory equipped with two major (82 inch and 107 inch) and several smaller optical telescopes, and a small radio dish.

2) Instrumentation Engineer or Physicist to be responsible for initial installation, testing and operation of 107-inch telescope.

3) Resident Observers to work with astronomers and instrument designers in the use of telescopes, spectrographs, and other astronomical instruments.

4) Night Assistants to assist astronomers with night operations.

#### MANUFACTURER'S REPRESENTATIVE

Excellent opportunity for man now covering colleges and universities with line of scientific equipment in Minneapolis, Minnesota; Columbia, South Carolina; Atlanta, Georgia; or Jackson, Mississippi. We have a complete range of Environment Equipment for you to offer your clients and to complement your present line. We are accepted as one of the top manufacturers and are already doing business in your area. We want a top quality, high producer only. Send us complete information in your first letter indicating your present line of equipment and references. Box 108, SCIENCE.

#### RADIATION BIOLOGY AND CELLULAR KINETIC RESEARCH GROUP

Staff positions open in renal physiology, cancer biology, immunology, and biochemistry. Scientists with significant postdoctoral experience are invited to submit curricula vitae to Dr. Samuel W. Leshner, Director, Division Radiation Biology, Department of Radiology, Allegheny General Hospital, 320 E. North Avenue, Pittsburgh, Pa. 15212.

## SALES ENGINEERS

Excellent opportunity for outstanding men to sell industrial building subcontracting direct to architects, engineers, contractors, and plant managers. Company is a leader in its field and well established. College training in engineering or experience in building construction preferred. Prior sales or estimating experience in building construction field helpful. Travel limited. Relocation paid.

This is a career opportunity with real potential with a growing 50-year-old company with excellent financial reputation. Salary, commissions, all expenses paid, plus excellent benefits. Interviews will be held in your area. Send complete résumé in confidence to:

Box 127, SCIENCE

## Clinical Pharmacologist

Large pharmaceutical research institute requires M.D. with Ph.D. or research background to design, initiate, monitor and evaluate initial trials of investigational new compounds by outstanding clinicians in major centers. Travel involved.

#### SALARY OPEN. EXCELLENT COMPANY BENEFITS

The Sterling-Winthrop Research Institute is the research division of Sterling Drug Inc., one of the world's largest producers of medicinal agents. The Institute employs about 600 people and is engaged in a very active research program. The Institute is located near Albany, on a plateau overlooking the Hudson River Valley, in the heart of the New York State vacation land.

Write qualifications to Mr. C. E. Alford, Director of Personnel

### STERLING-WINTHROP RESEARCH INSTITUTE

RENSSELAER

NEW YORK, 12144

An Equal Opportunity Employer



offers

## Research Fellowships in Britain in Biochemistry and Virology

The Alderley Park Research Laboratories, 16 miles south of Manchester, form part of the Pharmaceuticals Division of Imperial Chemical Industries Limited — the largest chemical group in Europe. With a staff of some 120 Ph.D.'s and a research budget of £2½ million (\$5,400,000) these laboratories are international in repute and outlook.

We offer either now, or in the fall, two Postdoctoral Research Fellowships, one to work on some aspect of the effect of drugs on protein and nucleic acid synthesis in mammalian or bacterial cells with Dr. T. J. Franklin, and another to work on biochemical aspects of interferon with Dr. N. B. Finter.

The period of the Fellowships will normally be two years. The stipend will depend on qualifications and experience, probably in the range of £1500—£1800, plus £100 for superannuation/life assurance cover. Substantial help will be given over passage costs for the Fellow and his family and in finding suitable accommodation.

Please write, giving brief details of age, qualifications and experience, to:—



J. Leak, Senior Personnel Officer,  
IMPERIAL CHEMICAL INDUSTRIES LIMITED,  
PHARMACEUTICALS DIVISION,  
Alderley Park, Macclesfield, Cheshire, England.

## POSITIONS OPEN

### SR. BIOCHEMIST Ph.D.

Expanding research is the lifeline to continued growth.

It is with this in mind that we are initiating a research program oriented to study the role of nucleic acid metabolism in inflammation and immune diseases.

If you are a Ph.D. in Biochemistry with 1 to 3 years' experience with an interest in this research area, we would like to explore our opportunity with you.

This position combined with NATIONAL'S excellent salary and benefits program makes for a truly outstanding career in research. Send your letter with curriculum vitae in strict confidence. We will be at the Federation Meetings. Can we speak with you there?

J. D. DIETRICH



**THE NATIONAL  
DRUG COMPANY**

Division of Richardson-Merrell Inc.

4663 STENTON AVE.

Philadelphia, Pa. 19144

An Equal Opportunity Employer

## Research Bacteriologist

An opening has developed on our staff for a bacteriologist with an interest in the chemotherapy of bacterial infections. The candidate should have a doctorate with training and/or experience in pathogenic bacteriology or bacterial chemotherapy.

Explore more fully Merck's reputation for research excellence: a product of highly competent scientists with ideas and the latitude and facilities to investigate. Inquiries may be addressed to:



Mr. G. C. Wolf,  
Scientific Employment



**Merck & Co., Inc.**  
Rahway, New Jersey 07065

An Equal Opportunity Employer M/R

### VIROLOGIST (Research Associate)

Ph.D. or D.V.M., or M.S. with equivalent experience for virological R&D in veterinary pharmaceutical company located in Midwest. Salary commensurate with education and experience. Send complete résumé to:

Technical Administration, National Laboratories, 1721 Baltimore, Kansas City, Missouri 64108.

## POSITIONS OPEN

### DRUG RESEARCH Ph.D./M.S.

A research position is available in the expanding Drug Distribution Unit of our Physiology Section. We are looking for a recent Ph.D. or M.S. with experience for research on the application of analytical and biochemical procedures to kinetics, absorption, excretion, tissue distribution and metabolism of drugs. Studies will encompass *in vivo* and *in vitro* experimentation.

Our laboratories are located in a small city in central New York State. We have an up-to-date salary schedule and fringe benefit program.

Interested candidates send resume to

F. J. Benenati, Prof. Empl. Repr.

**THE NORWICH PHARMACAL COMPANY  
AND EATON LABORATORIES DIVISION**

NORWICH, NEW YORK 13815

An Equal Opportunity Employer

### GENETICIST

One Ph.D. with competence in molecular genetics and cytogenetics. Duties will include the establishment and development of an undergraduate genetics course for biology majors. Research opportunity and graduate teaching. Write and include résumé to: Chairman, Department of Biology, Villanova University, Villanova, Pa. 19085.

### CHIEF MICROBIOLOGIST (Ph.D.)

Major medical center in metropolitan area offers challenging position as Chief Microbiologist for expanding clinical laboratory. Must have technical and supervisory qualifications. Ph.D. required. Must have New York City supervisory license. Will participate in the training of house staff physicians. Research opportunities. Fringe benefit program includes 4-week vacation, hospital paid group life insurance, major medical etc.

Send detailed resume including salary requirement

Box 126, SCIENCE

**PROTEIN OR ENZYME CHEMIST, Ph.D. or M.D.** with experience. To work on isolation and structure of brain proteins. Full-time research position at hospital-affiliated Research Institute in New York City.

Salary: Dependent on qualifications. Includes fringe benefits and increments. Send detailed curriculum vitae and references to:

Box 109, SCIENCE

### MATHEMATICIAN

A senior position is open in the Department of Actuarial Mathematics. The appointment will be made at the level of professor or associate professor. The appointee will be expected to provide leadership in the School of Commerce.

For further information please write to: E. R. Vogt, Professor and Head, Department of Actuarial Mathematics, University of Manitoba, Winnipeg 19, Manitoba.

### ZOOLOGIST-PARASITOLOGIST

Career position open in supervising commercial production of educational microscope slides for parasitology, vertebrate embryology, and anatomy in well-equipped laboratory in northeastern United States. Advanced degree and supervisory experience desirable. Detailed job description furnished on receipt of résumé.

Box 104, SCIENCE

## POSITIONS OPEN

### IMMUNOLOGIST

Research position for Ph.D. or M.S. with a strong biochemical background plus a thorough knowledge of blood banking reagents and their development. This position will be a new addition to our Immunological Development Group and involve research into the development of new diagnostic reagents.

Ortho is located in an attractive suburban area of New Jersey near Princeton. If interested send resume including salary requirements to Mr. Richard Groben.

### ORTHO DIAGNOSTICS

ROUTE 202

RARITAN, NEW JERSEY 08869

An Equal Opportunity Employer

## GRADUATE STUDY

### PREDOCTORAL AND POSTDOCTORAL TRAINING IN BIOENGINEERING

Opportunities for predoctoral students, Ph.D.'s and M.D.'s for advanced training with a research group. Biological control systems, visual-motor coordination, pupil light reflex, retinal light detection, neuro-physiology, artificial intelligence, and computer science. Training programs leading to the Ph.D. in physiology. Life science, physical science, mathematics or engineering backgrounds with "B" average required. Assistantships and traineeships from \$2400 and up. Information Engineering Dept., Room 2431 UH, University of Illinois at Chicago Circle, Box 4348, Chicago, Illinois 60680.

### RADIOLOGICAL HEALTH TRAINEESHIPS

Graduate program leading to M.S. degree. Financial support includes full tuition, fees, tax-free stipend from \$3,000 to \$4,800 per year, depending on background, and a dependency allowance of \$500 per year per dependent. For further information, write to Dr. H. Cember, Technological Institute, Northwestern University, Evanston, Illinois 60201

## The Market Place

### SUPPLIES AND EQUIPMENT

### HISTOLOGY SERVICE

**RAPID SERVICE Large Orders Quickly Processed! Quickly Shipped!** Professional supervision of every order. Free estimates on special problems. Distant points serviced swiftly. Special stains and techniques available. Full protected shipments. HISTOLOGY SERVICE, INC. 4801 N. Broad St., Philadelphia, Pa. Zipcode 19141. (215) DAVenport 4-5800.

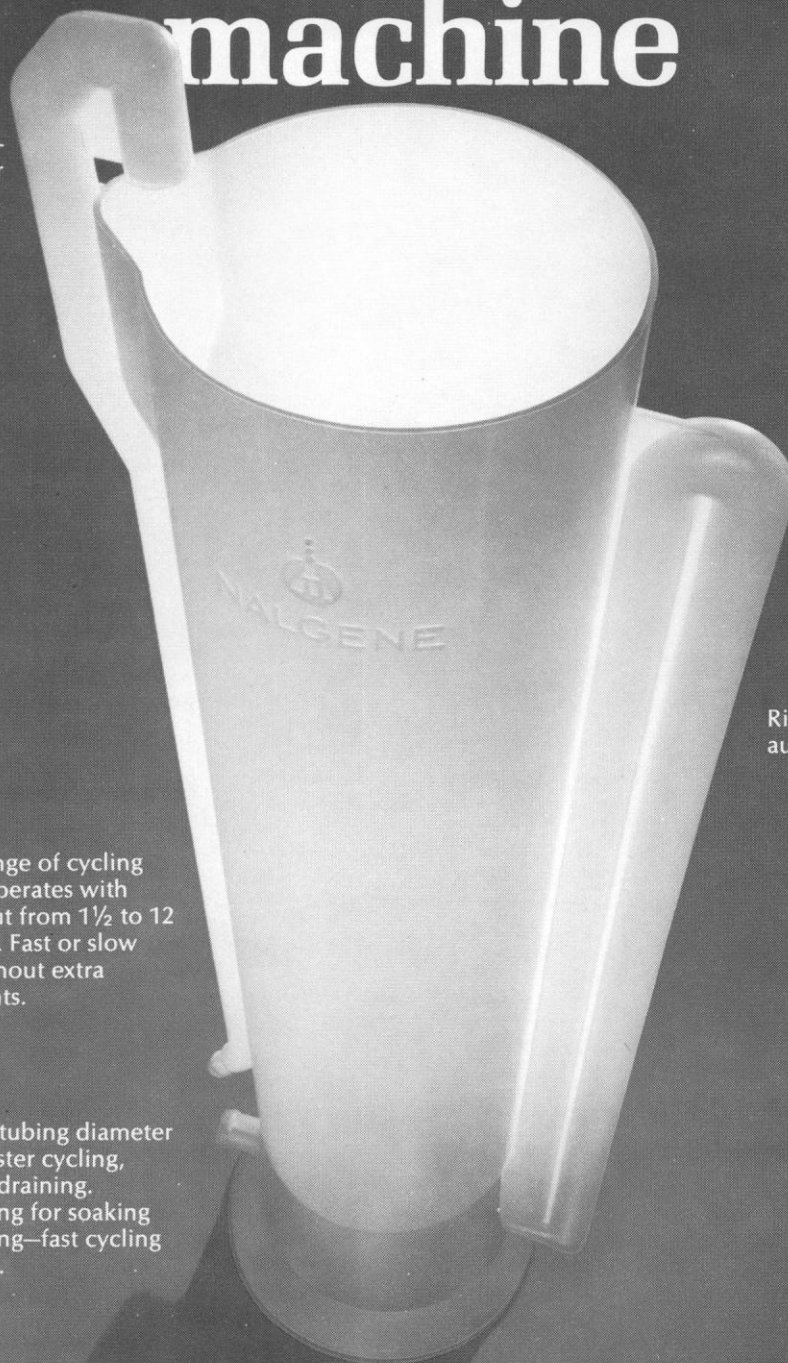
### ● HYPOPHYSECTOMIZED RATS

Shipped to all points via Air Express  
For further information write

**HORMONE ASSAY LABORATORIES, INC.**  
8159 South Spaulding Ave., Chicago, Ill. 60652

# washing machine

Exclusive top-located water inlet . . . back siphoning is impossible.



Rinser repeats automatically.

Widest range of cycling speeds. Operates with water input from 1½ to 12 liters/min. Fast or slow cycles without extra attachments.

Increased tubing diameter permits faster cycling, complete draining. Slow cycling for soaking and washing—fast cycling for rinsing.

## The **NEW** Nalgene® Unitary Pipet Washer-Rinser

Radically new design eliminates all pipet washing-rinsing problems. Molded in one piece of rigid, unbreakable linear polyethylene, no seams or welds. Use in the sink, connected directly to drainline. Size D for pipets up to 14" long, size E for pipets up to 24". Another new product from Nalge . . . the *innovator* in plastic labware. Specify Nalgene Labware from your lab supply dealer. Ask for our 1968 Catalog or write Nalgene Labware Division, Dept. 8504, Rochester, New York 14602.

SEE US AT THE FASEB SHOW, BOOTH A9 April 15-19, Atlantic City, N.J.



**NALGE**  
RITTER PFAUDLER CORPORATION





## AO offers the most complete line of stereo microscopes in the world

1) Twin-View for training; 2) Dual Observation for teaching and consultation; 3 & 4) Greenough for resolution and detail; 5) Cycloptic for all applications plus photography; 6 & 7) Series Forty for teaching science and biology; 8 & 9) StereoStar/ZOOM for continuously variable magnification from 3.5X through 210X, plus high resolution.

® TM Reg., American Optical Co.

AO® gives you the widest choice of type, price and magnification range to meet every possible requirement you may have for a stereoscopic microscope.

See for yourself. Contact your AO Sales Representative for any help in determining the best stereo microscope for your particular application. If we can provide more information on any specific model in the meantime, just let us know. Write . . .



**AO INSTRUMENT COMPANY**  
BUFFALO, NEW YORK 14215

Formerly Instrument Division of AMERICAN OPTICAL COMPANY