

**Sweetness and Sweeteners.** A symposium, Reading, England, April 1971. G. G. Birch, L. F. Green, and C. B. Coulson, Eds. Applied Science, London, 1971. viii, 176 pp., illus. £4.

**Synthetic Peptides.** Vol. 2. George R. Pettit. Van Nostrand Reinhold, New York, 1971. viii, 190 pp., illus. \$15.50.

**Tertiary Faunas.** A Text-book for Oil-field Palaeontologists and Students of Geology. Vol. 1, The Composition of Tertiary Faunas. A. Morley Davies. Elsevier, New York, ed. 2, 1971. 572 pp., illus. \$35.

**Tests on Transport Packaging for Radioactive Materials.** A seminar, Vienna, Feb. 1971. International Atomic Energy Agency, Vienna, 1971 (U.S. distributor, Unipub, New York). x, 644 pp., illus. Paper, \$18. Proceedings Series.

**Thin Liquid Films and Boundary Layers.** A discussion, Cambridge England, Sept. 1970. Published for the Faraday Society by Academic Press, New York, 1971. 270 pp. + plates. \$16. Special Discussions of the Faraday Society, No. 1, 1970.

**Underwater Science.** An Introduction to Experiments by Divers. J. D. Woods and J. N. Lythgoe, Eds. Oxford University Press, New York, 1971. xiv, 330 pp., illus. \$13.

**The Unions and the Cities.** Studies of Unionism in Government. Harry H. Wellington and Ralph K. Winter, Jr. Brookings Institution, Washington, D.C., 1971. xiv, 226 pp., illus. \$7.95.

**Vacuum Metallurgy.** O. Winkler and R. Bakish, Eds. Elsevier, New York, 1971. xvi, 890 pp., illus. \$85.

**Venomous Animals and Their Venoms.** Vol. 2, Venomous Invertebrates. Wolfgang Bücherl and Eleanor E. Buckley, Eds. Academic Press, New York, 1971. xxiv, 538 pp., illus. \$32.50.

**Visual Processes in Vertebrates.** A symposium, Santiago, Chile, Nov. 1970. T. Shipley and J. E. Dowling, Eds. Pergamon, Elmsford, N.Y., 1971. x, 478 pp. + plates. Paper, \$26; \$15 to subscribers. Supplement to vol. 11 of *Vision Research*.

**What Computers Can't Do.** A Critique of Artificial Reason. Hubert L. Dreyfus. Harper and Row, New York, 1972. xxxvi, 260 pp. \$8.95.

### New Journals Received

**International Journal for Parasitology.** Vol. 1, No. 1, May 1971. Quarterly. Editor: J. D. Smyth (Imperial College, London). Published for the Australian Society for Parasitology. Pergamon Press, Elmsford, N.Y. To institutions, \$25; to individuals, \$15.

**International Journal of Insect Morphology.** Vol. 1, No. 1, Sept. 1971. Quarterly. Editor: A. P. Gupta (Rutgers University). Pergamon Press, Elmsford, N.Y. To institutions, \$30; to individuals, \$12.

**Journal of Environmental Quality.** Vol. 1, No. 1, Jan.-Mar. 1972. Quarterly. Editor: A. A. Hanson (Plant Industry Station, Beltsville, Md). American Society of Agronomy, 677 South Segoe Road, Madison, Wis. \$10 within U.S., \$11 elsewhere; to members of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, \$7 and \$8.

**Journal of Human Evolution.** Vol. 1, No. 1, Jan. 1972. Six issues to a volume. Editor: A. B. Chiarelli (Torino). Academic Press, 111 Fifth Ave., New York, N.Y. 10003. \$38 plus \$2 postage.

**Research Policy.** Vol. 1, No. 1, Nov. 1971. Quarterly. Editors: C. Freeman and T. C. Sinclair (University of Sussex, Brighton, England); H. Krauch and R. Coenen (Heidelberg, Germany). North-Holland Publishing Co., P.O. Box 211, Amsterdam, Netherlands. \$26.

**Water, Air, and Soil Pollution.** An International Journal of Environmental Pollution. Vol. 1, No. 1, Nov. 1971. Four issues a year. Editor: B. M. McCormac (Lockheed Palo Alto Research Laboratory). D. Reidel Publishing Co., P.O. Box 17, Dordrecht, Netherlands. To institutions, \$43.95; to individuals, \$16.95.

**X-Ray Spectrometry.** An International Journal. Vol. 1, No. 1, Jan. 1972. Four issues a year. Editor: Ron Jenkins (Westport, Conn.). Heyden & Son, Spectrum House, Alderton Crescent, London N.W. 4, England. \$25.



# TWINcubator

GET TWICE THE PERFORMANCE IN A

... Two Separately Controlled Environments in ONE Enclosure!

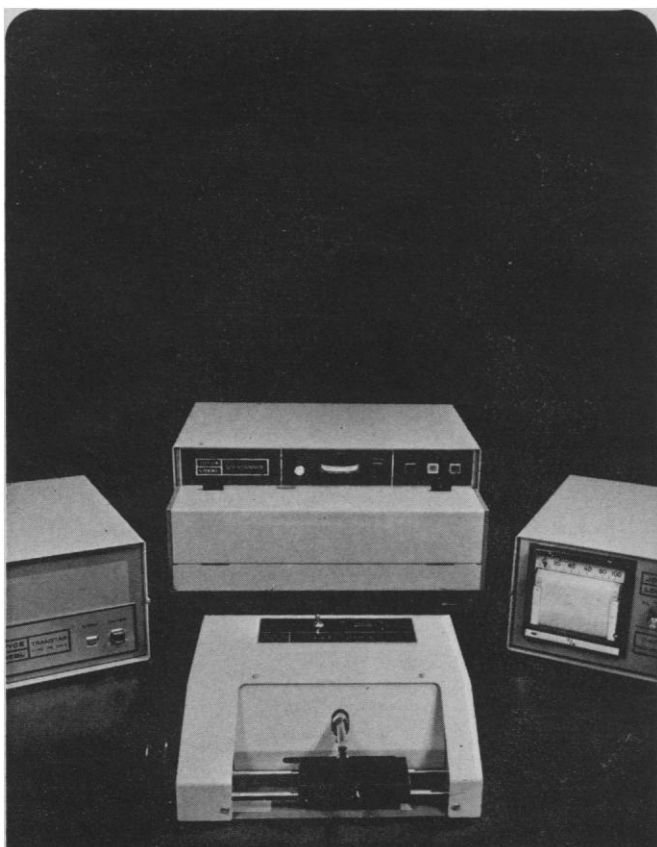
... and these Outstanding Features

1. Choice of Plant Growth, Rearing and Incubator Models
2. Gradient-Free Horizontal Air Flow
3. Stainless Steel Interior
4. Plug-In Solid State Controls
5. Choice of Interchangeable Control Panels
6. Performance Engineered Humidity Control
7. Variety of Light Banks and Filters

MODEL  
TWIN 40-110

**SCIENTIFIC SYSTEMS CORPORATION**  
(504) 926-6950  
BATON ROUGE, LOUISIANA 70815

9020 SOUTH CHOCTAW



## High Resolution Gel Scanning

The new U.V. polyfrac allows pushbutton scanning of polyacrylamide gels for RNA and protein work. Many features not found in spectrophotometers modified for this function are economically provided in the Joyce Loebel Scanner.

High resolution, simplicity of operation, and economy are features of the densitometer. A 0.1mm scanning slit and scanning speed of 25mm per minute provide high resolution analysis rapidly. The U. V. Scanner will easily accommodate purified gels or slabs for scanning unstained RNA at 265nm or 280nm for protein work. Full scale absorbance ranges of 0.5, 1.5, and 3.0 are switch selectable. The high level output of 0-10V, proportional to absorbance, is compatible with most laboratory chart recorders, although a matching recorder is available.

Joyce Loebel offers the highly sensitive and stable scanning densitometer separately or as an integral part of a complete system, including electrophoresis unit and a gel slicer designed to slice very soft gels frozen in dry ice. Slice thickness is adjustable from 0.1mm to 1.0mm in 0.1mm increments.

For more information contact: **Joyce Loebel & Company, Northwest Industrial Park, Burlington, Massachusetts 01803, (617) 272-2000.**



**JOYCE LOEBEL & COMPANY**

A RESEARCH COMPANY

## PATHOPHYSIOLOGY OF GESTATION

edited by **NICHOLAS S. ASSALI**, Department of Obstetrics and Gynecology and Physiology, School of Medicine, Center for Health Sciences, Univ. of California, Los Angeles, Calif.

This three-volume treatise represents an innovation in the medical literature on diseases of human reproduction, their origin, mechanisms, and general principles. Its originality lies in its two-fold approach to each disorder covered. First, the treatise uses the most basic and reliable physiological and biochemical information available to illustrate the pathophysiological mechanisms that generate the disorder. Second, instead of describing each disorder and its clinical manifestations separately—as in most classical clinical textbooks—the treatise analyzes the multiple normal homeostatic functions of the relevant system of the organism in the pregnant and non-pregnant state, and then discusses in detail how these functions can be altered by various disease states. For example, preeclampsia is not simply described as a separate entity; instead, it is elucidated on the basis of a detailed analysis of underlying circulatory, hepatic, renal, and water and electrolyte dysfunctions.

Volume 1: **MATERNAL DISORDERS**

March 1972, 624 pp., \$29.00

Volume 2: **FETAL-PLACENTAL DISORDERS**

April 1972, 370 pp., \$25.00

Volume 3: **FETAL AND NEONATAL DISORDERS**

in preparation

Three-volume set price: \$60.00 until publication of Volume 3. \$72.50 thereafter.

## ANALYTICAL PROFILES OF DRUG SUBSTANCES, Volume 1

Compiled under the auspices of the Pharmaceutical Analysis and Control Section, Academy for Pharmaceutical Sciences

edited by **KLAUS FLOREY**, The Squibb Inst. for Medical Research, New Brunswick, N. J.

In order to foster a better understanding of drug characteristics, the Pharmaceutical Analysis and Control Section of the Academy of Pharmaceutical Sciences has begun a cooperative venture to compile and publish Analytical Profiles of important drug substances. These profiles will present information not currently available in official compendia, including the physical and chemical properties of drug substances, as well as methods of synthesis and pathways of physical and biological degradation and metabolism, solubility, pH and pK values, spectra and spectrophotometric constants, and stability data.

1972, 492 pp., \$14.00

## PAABS REVISTA

A publication of the Pan-American Association of Biochemical Societies

editor-in-chief: **C. M. KAY**, Department of Biochemistry, Univ. of Alberta, Edmonton, Alberta, Canada

A new review journal in which authoritative essays on recent significant developments in biochemistry and molecular biology are accompanied by the appropriate original papers, reprinted in REVISTA, and selected by the reviewer. The reviewers' writing assignment will be a short essay, describing the background and the significance of the work as well as its implications for the future development of the subject.

Volume 1, 1972 (Quarterly)

Institutional subscription price: \$25.00

PAABS Membership Price: \$12.50\*

Other private subscriptions: \$18.00

Plus postage for any subscription

\*Society Member Subscribers must certify that journal is for their personal use only.

## FOUNDATIONS OF MODERN AUDITORY THEORY, Volume 2

edited by **JERRY V. TOBIAS**, Federal Aviation Admin., Oklahoma City, Okla.

**ACADEMIC PRESS**

NEW YORK AND LONDON  
111 FIFTH AVENUE, NEW YORK, N. Y. 10003

Circle No. 60 on Readers' Service Card

Circle No. 62 on Readers' Service Card

## Schwarz/Mann Bulletin Board



### 3 New Peptides— available from stock:

[Arg<sup>8</sup>] Vasopressin, 3 grades available

A: Activity >300 Units/mg

B: 200-299 Units/mg

C: <200 Units/mg

(Call or write for prices)

[Arg<sup>8</sup>] Vasotocin, 2 grades available

A: >100 Units/mg

B: 50-100 Units/mg

(Call or write for prices)

Thyrotropic Releasing Hormone

5 mg \$14/mg

25 mg \$11/mg

100 mg \$ 9/mg

500 mg \$ 7/mg

Schwarz/Mann

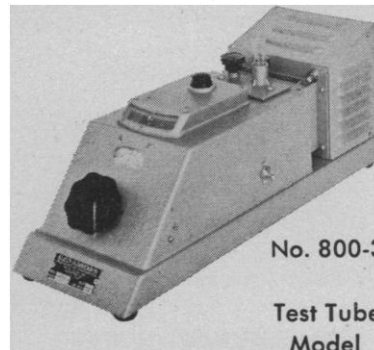
Division of Becton, Dickinson and Company 

Orangeburg, New York 10962

Telephone: 914-359-2700

Circle No. 93 on Readers' Service Card

## Klett Summerson Photoelectric Colorimeter

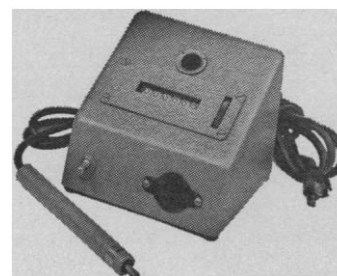


No. 800-3

Test Tube  
Model

### KLETT COLONY MARKER and TALLY

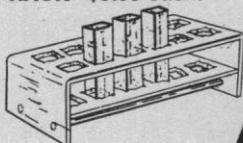
This instrument takes the drudgery and error out of the counting of bacterial colonies.



**Klett** MANUFACTURING CO., INC.,  
179 East 87th Street, New York, 28, N.Y.

Circle No. 90 on Readers' Service Card

12 HOLE CELL STORAGE  
RACK—\$9.00 each.



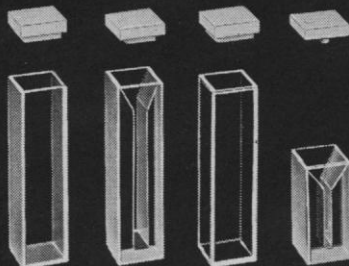
CUVETTE  
WASHER-DRYER

The fast way to wash and dry cuvettes without scratching or breaking.  
\$16.00 each.



LOW  
PRICES  
ON  
QUALITY  
ABSORPTION  
CELLS

Fully Fused—No Cemented Seams  
to Dissolve in Acid.



520 types  
Cuvettes

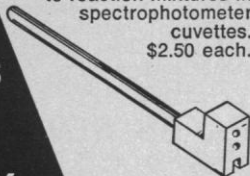
available in Glass, Special Glass, Quartz, Matched Sets, specials to order.

NEW CATALOG 71/2 AVAILABLE

**Precision Cells Inc.**

221 Park Ave. • Hicksville, N. Y. 11801 • (516) 938-7772

CUVETTE ADD-A-MIXER  
Used for adding small volumes of enzyme solution to reaction mixtures in spectrophotometer cuvettes.  
\$2.50 each.



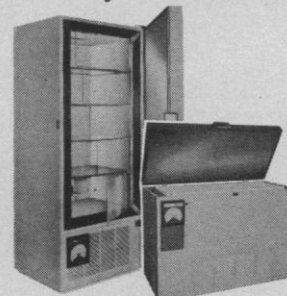
SEMI-MICRO  
CUVETTE  
ADD-A-MIXER  
\$3.50 each.

## Environmental Control?

We've been doing it for 40 years with...



Environmental Rooms/  
Temperature Humidity Incubators  
Over 500 standard sizes:  
bench-top to walk-in.



Sub-Arctic Biological Freezers  
From 7 to 17 cu ft.;  
-73 to -131°C.



Laminar-Flow  
Clean Stations



Multi-Range Precision  
Temperature Baths

**Relialab**  
by **Tenney**  
ENGINEERING, INC.

Write or call for  
further information.

1090 Springfield Rd., Union, N. J. 07083  
(201) 686-7870 • (212) 962-0332

674

Circle No. 94 on Readers' Service Card  
SCIENCE, VOL. 175

# Personnel Placement

## POSITIONS WANTED

**Astronomer-Physicist**, experienced teaching physics, astronomy, computers to undergraduates, seeks teaching position. Northeast or Middle Atlantic preferred. Excellent credentials, references. Box 87, SCIENCE. 2/25

**Biochemist**, Ph.D. 1968. Postdoctoral research training; teaching experience. Experience with bacterial, fungal and mammalian systems. Facility in using, modifying, and developing techniques. Interested in applied enzymology. Box 97, SCIENCE. X

**Biologist**, Ph.D. (Genetics, 1965). Broad training; 15 years of teaching experience (10 years full-time university). Special interest innovative undergraduate education. Desires position commensurate with background and interests. Box 34823, Dallas, Texas 75234. 2/25

**Chemist/Physicist**: Caltech Ph.D. Broad interdisciplinary experience. Formerly professor of chemistry; assistant director of Caltech's JPL; assistant director corporate research laboratory of major chemical company; established major materials research center. Academic or industrial position. Résumé on request. Box 98, SCIENCE. X

**Endocrinology, Biochemical Pharmacology, Cellular Physiology**. Desire teaching/research. M.S. in physiology, Ph.D. in pharmacology, postdoctoral in steroid biochemistry. Research in androgen metabolism. Box 110, SCIENCE. 3/17

**Immunologist**, 39, Dr.rer.nat. (microbiology), B.Sc. (chemistry and zoology). Six years of postdoctoral experience in cancer immunology. Seeking position in United States or Canada. Box 99, SCIENCE. 3/10

**Immunologist/Microbiologist**, Ph.D.: an experienced teacher with 10 years of research experience with tissue antigens, immunoglobulins and protein isolation. Desires nongrant dependent position teaching or in a research institute. Box 100, SCIENCE. X

**Invertebrate Embryologist, Cytologist**, Ph.D. 1969. Six years of teaching experience, undergraduate and medical school. Extensive EM and cytochemistry training. Interest in embryonic cytodifferentiation mechanisms. Desires teaching/research position. Box 101, SCIENCE. X

**Microbiologist** Ph.D. Industrial, academic, management experience. Publications, patents. Desires research academic or administrative position in SOUTH. Box 102, SCIENCE. X

**Microbiologist**, Ph.D. (May 1972), desires teaching/research position in small university or in field of microbiology. Publications. Box 107, SCIENCE. X

**Minority Group, Mexican-American. Microbiologist, Virologist**, Ph.D. Postdoctoral (viral oncology, pathogenesis) and teaching experience. Broad medical-basic sciences background. Seeks teaching research position commencing July 1972. Box 106, SCIENCE. X

**M.S. Biochemist**, May 1972. Thesis on polysaccharide biosynthesis, biomembrane characterization. Experience with most biochemical analytical techniques. Desires pharmaceutical R & D work or medical school research team. Location, salary open. Box 111, SCIENCE. X

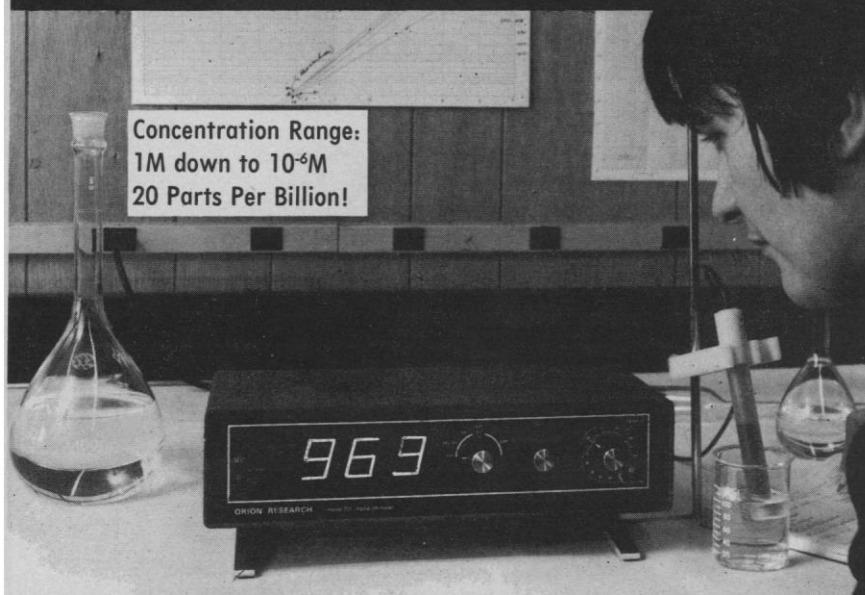
**Pharmacologist**, Ph.D. 1972. Strong physiology background, toxicology experience, publications, references. Desires academic or industrial position. Box 103, SCIENCE. X

**Pharmacologist-Toxicologist**, 30, 5 years of postdoctoral experience. Research interests in drug distribution and metabolism in relation to drug toxicity. Publications. Seeks teaching-research position. Box 108, SCIENCE. X

**Tandem, Husband and Wife**, both Ph.D.'s, teaching experience; botany, microbiology, ecology; zoology, evolution, entomology, behavior. Both with modest publications. Seek academic or other position. Box 105, SCIENCE. X

25 FEBRUARY 1972

## NOW...FAST, SIMPLE INTERFERENCE-FREE AMMONIA MEASUREMENTS



New Orion Ammonia Electrode shown with the Orion Model 701 Electronic Display pH/mv Meter

Because *this* electrode is unaffected by color, turbidity, or suspended solids, it eliminates time-consuming, preliminary distillations. You can read the ammonia levels *directly* from the log scale on all Orion Specific Ion Meters — or from a calibration curve if a pH/mv meter is used. (The electrode can be used with *any* expanded-scale pH meter.)

In addition to measuring dissolved ammonia, you can measure ammonium ion (by adding base to convert ammonium to ammonia), nitrate (by adding a strong reducing agent to the sample, and organic nitrogen (after Kjeldahl digestion). And note this: No reference electrode is required. It's built right into the electrode!

For fast, on-the-spot measurements of ammonia, this new Orion electrode is the answer. *Ask us for details.*

H-5724X Ammonia Electrode, Model 95-10, supplied in a vinyl-covered steel storage box with accessories. Price .....\$295.00

Pictured with the ammonia electrode is Orion's Model 701 Electronic Display pH/mv Meter — a general-purpose instrument that will accept practically every specific ion electrode on the market. It's extremely versatile... covers the entire pH range with 0.01 pH precision. The 2 pH unit expanded-scale range gives 0.001 pH precision; the expanded mv range (+200 to -200), 0.1 mv precision. Cost? Only \$750.00. *Ask us for a descriptive brochure.*

|   |                     |   |                           |
|---|---------------------|---|---------------------------|
| <b>SGA</b><br>SCIENTIFIC<br>BLOOMFIELD, N. J. 07003 |                     | LABORATORY...<br>♦ APPARATUS<br>♦ INSTRUMENTS<br>♦ CHEMICALS<br>♦ GLASSWARE |                           |
| Branches:   | Boston<br>Mass.     | Danbury<br>Conn.  | Elk Grove Village<br>Ill. |
|   | Fullerton<br>Calif. | Philadelphia<br>Penna.  | Silver Spring<br>Md.      |
|   |                     |   | Syracuse<br>N. Y.         |





Roche Institute  
of  
Marine Pharmacology  
*invites applications for the position of the*  
**DIRECTOR**

Roche is to establish in Sydney an Institute of Marine Pharmacology to carry out basic research into the chemistry, pharmacology and microbiology of a wide range of natural products obtained from marine organisms. The Institute will have the co-operation of several Australian Universities as well as other ROCHE research centres in Switzerland, the U.K. and the U.S.A. The building of the Institute on our present site set in garden surroundings at Dee Why will begin soon.

The Director is expected to co-ordinate the research activities of the Institute. This consists of the three major sections of chemistry, pharmacology and microbiology on one hand and the field work done by one or two teams on the other hand.

The successful applicant, Ph.D or M.D., is expected to possess a thorough background in marine biology, to develop a full understanding for the variety of scientific approaches of the Institute and to be an experienced research worker and organiser.

The Director will be assisted by an expert Section Leader for each of the three major sections, by an experienced Laboratory Manager as well as by the existing administration of Roche Products Pty. Limited. He, himself, is expected to be close to the field work, especially with regard to collecting of samples.

The Research Building is scheduled to be completed by mid 1973. A small research team is already in operation.

The first stage of the Institute will comprise a staff of 25 to 30.

An attractive salary will be offered according to qualifications and experience.

Generous Superannuation benefits are available.

*Applications should be forwarded to—*

The Managing Director,  
Roche Products Pty. Limited  
P.O. Box 255, Dee Why  
N.S.W. 2099

*before 31st January, 1972.*

#### POSITIONS WANTED

**Physiological Psychologist**, M.A., Ph.D. (expected June 1972). Training in electrophysiological and neuropharmacological technique. Academic or research position desired. Research interests: brain mechanisms underlying visual information processing and visually guided behavior; psychopharmacology of midbrain and brainstem systems and relevance to clinical disorders. Please write Box 109, SCIENCE. 3/3, 10

**Physics/Materials Science**, Ph.D., many publications, age 39, available for 5-month period, April to September. Northern California. Box 104, SCIENCE. X

#### POSITIONS OPEN

##### MANAGE AN ANATOMY DEPARTMENT

Faculty position as administrative assistant to chairman. Ph.D. or M.D. Main responsibility to help administer growing, research-oriented department. Teaching expected. Some research possible in new EM-cytochemistry facility. About \$15,000. Start May or June 1972. Send curriculum vitae to: **Chairman, Department of Anatomy, Temple University School of Medicine, Philadelphia, Pa. 19140.**

##### BEHAVIORAL SCIENTIST

Curricula vitae and letters are invited from those interested in the position of Department Head in Psychology starting August 1972. The Department, presently with a doctoral level staff of ten, now offers undergraduate degrees, the M.A. degree in General Experimental Psychology, and has under development (state legislative approval granted) a doctoral program in Engineering (Experimental) Psychology. Those wishing to make application or to request further information may write to: **Dr. Benjamin Fairbank, Jr., Department of Psychology, Box 3452, New Mexico State University, Las Cruces, New Mexico 88001.** New Mexico State University is an Equal Opportunity Employer.

##### OBERLIN COLLEGE ASSISTANT PROFESSOR BIOLOGY

Person wanted with background in molecular biology/biochemistry to teach in introductory program, advanced course, develop research program. Applications invited from qualified individuals with Ph.D., particularly from women and members of minority groups. Forward vitae and transcripts, and have three letters of reference sent to **Warren Walker, Department of Biology, Oberlin College, Oberlin, Ohio 44074.**

##### DEAN OF THE COLLEGE

Well-known independent women's college, New England. An Equal Opportunity Employer. College teaching and credentials and experience. Key post. Salary open.

Box 112, SCIENCE

##### THE UNIVERSITY OF MANITOBA

invites applications for the position of Professor and Head of the Department of Microbiology in the Division of Biological Sciences. Currently there are ten faculty members in the Department which offers undergraduate and graduate programs. A large and multidisciplinary complex of laboratories and institutes located on the campus provides a stimulating environment for research and teaching. The current salary minimum for a Professor is \$17,500 but the actual appointment will be made at whatever higher salary level is appropriate to the qualifications of the appointee. The academic position will carry tenure on appointment, the administrative role as Department Head will be for an agreed period of years and renewable under the terms of the University's administrative bylaws. Apply giving curriculum vitae to: **Dr. P. K. Isaac, Associate Dean of Science, University of Manitoba, Winnipeg, Manitoba R3T 2N2.**

Applications invited for ten positions: **GENETICS, VERTEBRATE PHYSIOLOGY, MOLECULAR BIOLOGY, DEVELOPMENTAL BIOLOGY, ETHOLOGY, BIOCHEMISTRY, ANALYTICAL CHEMISTRY, STATISTICS, OPERATIONS RESEARCH, ENVIRONMENTAL STUDIES.** Ph.D., entry level or senior position. Emphasis on teaching, student research, public affairs in an innovative multidisciplinary setting. **Mr. Robert J. Batson, Director of Academic Recruitment, Sangamon State University, Springfield, Illinois 62703.**

**Chemical-Physical  
Analysis**

## GROUP LEADER

Quality Assurance is critical to our growing responsibilities as a world-wide leader in the health care field. Thus, the specialist we seek to direct our Quality Assurance Analytical Group (in the testing and release of all manufactured chemicals, raw materials and finished products used by our Chemical Division, as well as the antibiotics manufactured by this division) must be a "pro" equal to the challenge. He must be knowledgeable in organic analytical wet methods of analysis. He must have demonstrated ability to solve analytical problems and direct others in the resolution of these problems. He must have a Ph. D. or equivalent Analytical Chemistry experience. He must have good inter-personal skills and a QA background, hopefully in pharmaceuticals.

Other than a good starting salary and profit sharing, the rewards—professionally and personally—are too numerous to enumerate here: Rush resume and salary history in confidence to:

**Box 125, SCIENCE**

*An Equal Opportunity Employer*

## MEDICAL RESEARCH COUNCIL

### Director of the Dunn Nutritional Laboratory

The Medical Research Council invite applications for the post of Director of their Dunn Nutritional Laboratory in Cambridge on the retirement of the present Director, Dr. E. H. Kodicek. The post will become vacant in September 1973 but an earlier appointment would be considered if appropriate.

The Council are anxious to maintain and develop research in the field of nutrition and the new Director will be expected to lead a multidisciplinary team and to place particular emphasis on clinical aspects of nutritional problems and to make use of epidemiological methods where suitable; the Laboratory will, however, continue to provide the necessary biochemical support for such studies. The Council also wish the Laboratory in future to be closely concerned with practical nutritional problems of public health in the U.K. and in developing countries. The precise scope and emphasis of the programme will be a matter for discussion between the new Director and the Medical Research Council.

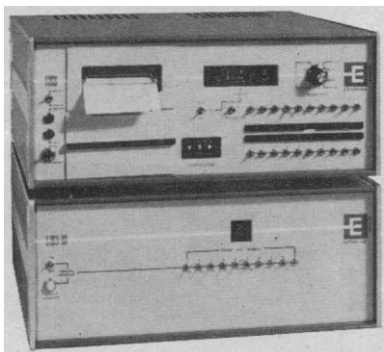
The Council are seeking applicants with experience of research in the nutritional sciences. They would prefer to appoint a Director with a medical qualification. Applicants for the post should submit a full curriculum vitae, a list of publications and a short statement (not exceeding 50 words) outlining in general terms the scientific programme they would wish to undertake if appointed.

#### Salary and Conditions of Service

If the new Director's work makes it possible for him to hold an honorary clinical contract, and this is awarded at consultant level by a hospital board, he will be paid on the MRC consultant scale (£4,512 - £6,840). If the Council decide to appoint an individual who would not require to hold a clinical contract, he would be paid on the Council's Special Appointments Grade (non-clinical) scale (£4,533 - £6,354). The starting salary would be appropriate for age, qualifications and experience and could be at any point including the top point of the scale. Superannuation provision will be made under the Federated Superannuation System for Universities.

Applications for the post should be submitted not later than the 15th of March 1972 to the Secretary, Medical Research Council, 20 Park Crescent, London W1N 4AL England. Further particulars may be obtained from Mrs. J. Evens at the same address, or telephone 01-636-5422.

## El Cheapo programmable data acquisition system



Analog data. 5 to 200 channels. Switch programmed. Digital output prints out or is formatted for computer input. Designed for laboratory, pilot plant, industry or field. That's El Cheapo (the tight-belt computer feeder).

And price, operating cost and programming expense are the only things cheap about it. Ask for a demonstration—we'll prove the point. Write or call for a catalog. Box 24,000, Indianapolis, Indiana 46224. 317/244-7611.



**ESTERLINE ANGUS**  
Division of Esterline Corporation  
Data Recording Instruments

## IMMUNOLOGIST

G.D. Searle & Co., a recognized leader and research oriented company within the pharmaceutical industry, is seeking an immunologist to probe the mechanisms of hypersensitivity diseases and to collaborate in the development of drugs and methods for their treatment.

The candidate should possess a Ph.D. with broad exposure in immunological theory, methods and techniques. Experience with laboratory models of hypersensitivity would be helpful.

Our work environment is stimulating and the opportunity for personal and professional growth is optimum for a research oriented scientist. We offer a pleasant suburban Chicago location, an excellent salary based upon experience and a comprehensive benefit package which includes profit sharing. All inquiries will be kept in strictest confidence. Please send resume to:

**Kenneth T. Kroll**

**G. D. SEARLE & Co.**

P.O. Box 5110

Chicago, Ill. 60680

*An Equal Opportunity Employer*

## FELLOWSHIP

### POSTDOCTORAL FELLOWSHIP

Now open for a biochemist interested in dipeptide metabolism, enzymology, and radiotracer studies. Apply to

J. Lenney  
School of Medicine  
University of Hawaii  
Honolulu, Hawaii 98622

## POSITIONS OPEN

## FELLOWSHIPS

### POSTDOCTORAL FELLOWSHIPS IN PHARMACOLOGY

Fellowships available for postdoctoral studies in department of pharmacology. Applicants should be citizens or permanent residents of the United States. Active areas of research include investigations at biochemical, cellular, and organ levels in cardiovascular, renal, endocrine, gastrointestinal, and central nervous systems. Address inquiries to **Dr. Samuel Mallov, Department of Pharmacology, State University of New York, Upstate Medical Center, Syracuse 13210.**

## POSITIONS OPEN



Rijksuniversiteit Utrecht

Applicants with a training in (bio)physics and experience in cardiovascular research and instrumentation, are invited for the position of

## reader

in the Department of Medical Physics. This department belongs to both the faculty of medicine and the faculty of sciences. In the latter it is an integral part of the Physics Laboratories. It has facilities and laboratory room at its disposal in other institute hospital.

### Qualifications

The successful applicant is expected to cooperate closely with the department for cardiovascular diseases (Prof. Fritz L. Meijler), in which department he will be accommodated, and the department for cardiovascular surgery. Besides he is supposed to take a proportional share in teaching responsibilities with the other staff members of the medical physics department.

### Salary

The salary will not be less than Dfl. 36.000 (with a maximum of Dfl. 55.000) depending on experience and qualifications. Extra allowances for travel and move are possible.

Further information may be obtained from **Prof. Jan J. Denier van der Gon, Eisenhowerlaan 4, Utrecht, The Netherlands (030-938848).**

### Application

Applications, together with curriculum vitae, details of experience, list of publications, and names of referees are to be sent to the **Chief of the Personnel Department for the Faculty of Medicine, Catharijnesingel 71, Utrecht, The Netherlands, by number 500/01.14.**

**NEUROENZYMOLOGIST.** Postdoctoral Fellowship (1 to 2 years). To study enzyme systems involved in metabolism of brain glycolipids. Experience in all aspects of enzyme chemistry essential.

**Location:** New York metropolitan area in a well-equipped university-affiliated hospital research institute.

**Salary:** \$13,000 (plus liberal fringe benefits). Send curriculum vitae and two references to:

**BOX 92, SCIENCE**

## GRADUATE STUDY

### PREDOCTORAL ASSISTANTSHIPS

Excellent opportunities are available for graduate students to pursue a Ph.D. in contemporary areas of Biological Sciences. Stipends are available up to \$3500 for 9 months. With up to \$800, in addition, for the summer. For details write to: **Dr. C. P. Sword, Chairman, Life Sciences Department, Indiana State University, Terre Haute, Indiana 47809.**

**GRADUATE RESEARCH TRAINING PROGRAM IN AIR POLLUTION TOXICOLOGY** leading to M.S.; 12-month course, non-thesis, involves study of analysis of pollutants, biological effects. Information from **Dr. Samuel Elkin, Center for Environmental Studies, Temple University School of Pharmacy, 3223 North Broad Street, Philadelphia, Pa. 19140.**

## COURSES

### WOODS HOLE EMBRYOLOGY COURSE SUMMER 1972

The embryology course presented annually at the Marine Biological Laboratory, Woods Hole, Massachusetts, will appear in a new form in the summer of 1972. The Faculty of the course will include **Dr. Gary Freeman, University of California, San Diego; Dr. Dennis Smith, Purdue University; Dr. Joseph Ilan, Case Western Reserve Medical School; Dr. Fotis Kafatos, Harvard University; and Dr. Eric H. Davidson, the California Institute of Technology.** This year the course is to be centered around cytoplasmic localization in eggs and other developmental systems. The 1972 Embryology Course is conceived as an opportunity for qualified graduate students, postdoctoral investigators, and the course faculty to develop the status of the localization problem at the molecular level.

The course will begin 29 June and will extend through August. Inquiries should be directed to **Eric H. Davidson, the Course Director**, or to **Dr. Gary Freeman, the Associate Director.** 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 funds for the participants' living expenses, tuition, and travel to and from Woods Hole.

## TRAINING PROGRAM

### TRAINING PROGRAM

**Physiology and Biophysics of Excitable Membranes**  
**Marine Biological Laboratory, Woods Hole, Mass.**  
**June 12 thru August 25, 1972**

Lectures, laboratory workshops, research experience. Experimental and theoretical aspects of structure and function of excitable membranes. Emphasis on modern viewpoints and techniques. Limited to 12 students at pre- and postdoctoral level with suitable backgrounds in quantitative biology, physiology, physics, chemistry, or engineering.

For details, write to **Dr. D. E. Goldman, Department of Physiology and Biophysics, Medical College of Pennsylvania, Philadelphia, Pa. 19129.**

## The Market Place

### LIVE RESEARCH ANIMALS

For Sale: reptiles, amphibians, invertebrates, mammals and birds. Also, preserved and frozen specimens. We are specialist dealers in living and preserved zoological specimens of only the highest quality! May we be of assistance to your teaching or research needs? Please write for a copy of our current "In-Stock Bulletin." **Midwest Reptile and Animal Sales, Inc.; L. A. Lantz, President, P.O. Box 239; Fort Wayne, Indiana 46801.**



# Are You Drawing the Right Conclusions?

You've spent days, weeks, perhaps even months, gathering your experimental data. Don't waste it! Use the HP Series 9800/Model 10 for your statistical analysis and be sure the conclusions you draw are valid. Not only does the Model 10 insure your statistical reliability, it will *significantly* cut your problem-solving time as well. What is "significantly"? With a Model 10 Programmable Calculator System, you can perform a multiple linear regression analysis (up to 11 independent variables) in less than 10 minutes. That's everything—including entry of program and data, solution to the problem, and labeled output — complete with AOV table.

As powerful as the Series 9800 is, we think you and your colleagues will be even more excited by the new **HP Stat-PAC**. This two-volume package contains the sophisticated programs that you've told us are critical. Each is written for easy entry, including operating instructions, error correcting options (where applicable), and the appropriate output formatting. Typical programs include: **One Way ANOVA** (balanced or unbalanced), **Two Way ANOVA** (with Replicates or with Tukey Tests), **Latin Square Designs**, **Factorial Designs**, **Polynomial Regressions with Plots**, **Analysis of Covariance**, **Nested Designs**.... These aren't some marketing man's

idea of how a stat program should be written—they were developed in conjunction with the statistics laboratory of a major university.

We realize that not all of your problems are this complex. For your smaller problems, use our exclusive **Statistics Function Block** to solve means, variances, and regressions directly on the keyboard.



Adding it all up, the Model 10 Programmable Calculator is the only desk-top computing system on the market that lets you customize the keyboard, lets you choose the memory and peripherals (X-Y Plotter, Tape Cassette, Typewriter . . . ) that best fit your situation, and gives you alphanumeric print-out, right on the printer tape.

We've saved the best for last. You can put the Series 9800 Model 10 in your lab for as little as \$2975. Features. Price. Simple operation. We say the Series 9800 is the best statistical computing system now, and in the foreseeable future. But don't take our word for it. See for yourself. For more information or a "hands-on" demonstration, write: Hewlett-Packard, P.O. Box 301, Loveland, Colorado 80537. In Europe: 1217 Meyrin-Geneva, Switzerland.

Circle No. 1 on Readers' Service Card

HEWLETT **hp** PACKARD

CALCULATOR PRODUCTS



# 300-sample capability is best when it's multiple-user, too.



Now, our designers have extended the proven Beckman LS liquid scintillation systems into a whole new series of 300-sample instruments. Which is good news for researchers, either singly or six at a time.

Models range from a low-cost version up to a completely automated system featuring a DPM controller and Beckman's Automatic Quench Calibration... all available in standard or multiple-user configurations. There's the right model for any possible LS application.

Any of the new LS-300 series, of course, will let one investigator continuously count 300 samples. Automatically, unattended—even over a weekend.

In the multiple-user models, the advantage is even greater. Six users can have separate, optimum control over three channels apiece—18 totally differ-

ent parameters. Independent control, that is, over window settings, isotopes, cocktails, preset time, preset error, and control over system gain. With either external standard ratio or channels ratio. And those six users needn't operate on a "same-program" basis. It's a true sharing technique. Accurate, convenient, and faster than ever before.



It comes down to this. We now lead the LS field and offer the most complete line of systems anywhere. Prices start as low as \$3,100. And our new LS-300 Series systems give you features, flexibility, and overall capabilities that other instruments can't match. In short, more count for your money.

We invite you to find out more about the LS-300 Series. It's proof once again that our designers have made instrument engineering into a science... and a service to you. Write for Data File 410, Scientific Instruments Division, Beckman Instruments, Inc., 2500 Harbor Blvd., Fullerton, Calif. 92634.

**Beckman®** INSTRUMENTS, INC.

HELPING SCIENCE AND INDUSTRY IMPROVE THE QUALITY OF LIFE

Circle No. 13 on Readers' Service Card