

terest to members concerned with international affairs:

29 January, 1:30 p.m., Hunter College. The Office of Science Education will hold an open discussion concerning possible activities for assisting foreign students both while studying in the United States and when returning home.

30 January, 5:00 p.m., Princess Ballroom. The Office of International Science is holding a discussion meeting on its present and proposed activities following an all-day panel on "Western Standards and Stereotypes as Impediments to Development." Seven African scientists, AAAS guests, will participate in both the panel and the meeting.

28 January, 7:30 p.m., LaLoire 2 & 3. The Communications Department is scheduling an open meeting to exchange information on public understanding of science activities with AAAS members and their guests.

29 January, 6:00 p.m., Versailles Room. The population project of the Office of International Science is sponsoring a no-host cocktail reception for the panelists and participants in the six sessions related to population.

NOVA Program Schedule

12 January. *What Time Is Your Body?* Biological clocks in plants, insects, animals, and man; and what happens when they start running at their own speed (a BBC production).

19 January. *The Rise and Fall of DDT*. A reexamination of the banning of DDT, once a wonder chemical and now a symbol of ecological doom (a BBC production).

26 January. *The First Signs of Washoe* (repeat). Have chimpanzees breached one of the traditional bastions of man's uniqueness, his ability to use language? (a WGBH production).

2 February. *Take the World from Another Point of View*. NOVA visits two very different scientists: Richard Feynman, a theoretical physicist and Nobel Laureate; and Jonathan King, a biologist just beginning to win acceptance from his peers, and deeply troubled about the social role of science (a WGBH production).

9 February. *The Lysenko Affair*. A dramatic reconstruction of the battle between the Lysenkoists and the classical geneticists that raged in the Soviet Union for 20 years and abruptly ended in 1948 when Stalin announced his support of Lysenko (a BBC/WGBH production).

TIAA CREF

The Best Deal on Life Insurance, by Far, is TIAA

Independent consumer studies continue to confirm that TIAA life insurance costs substantially less than policies sold through life insurance companies that serve the general public.

These days, when it's more important than ever to squeeze the most from every dollar, it makes more sense than ever for college employees and other eligible persons to look to TIAA for the new life insurance they need. By the way, TIAA policies include the unique "Cost of Living" provision to help prevent inflation from nibbling away the purchasing power of the death protection.

While TIAA offers plans to meet different situations, and a free advisory service to help select the right plan, most educators with TIAA policies prefer Term insurance because with Term they can easily afford to carry the high level of family protection they need.

For example: \$100,000 of decreasing Term insurance costs only \$185 at age 30.

Here are illustrative cost figures for different ages:
\$100,000 20-Year Home Protection Policy

Age at Issue	25	30	35	40
Annual Premium (Payable only 16 years)	\$268	\$318	\$413	\$580
Cash Dividend End of First Year*	122	133	154	191
First Year Net Premium	\$146	\$185	\$259	\$389

*Based upon the current dividend scale, not guaranteed.

This Home Protection policy is level premium Term insurance that gives its highest amount of protection initially, reducing by schedule over a 20 year period to recognize decreasing insurance needs. Home Protection policies are available for several other insurance periods in amounts of \$5,000 or more and are issued at ages under 56.

ELIGIBILITY to apply for TIAA policies is limited to employees of colleges, universities, and certain other nonprofit educational institutions that qualify for TIAA. If you are eligible, complete and send the coupon so we can mail the Life Insurance Guide and a personal illustration of TIAA policies issued at your age. TIAA is nonprofit and employs no agents.

TEACHERS INSURANCE AND ANNUITY ASSOCIATION
730 Third Avenue, New York, N. Y. 10017

Please mail the Life Insurance Guide and a personal illustration.

Name _____ Your Date of Birth _____

Address _____ Street _____

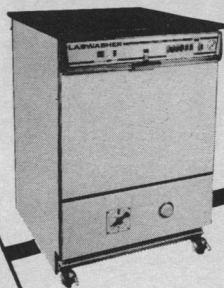
City _____ State _____ Zip _____

Dependents' Ages _____

Nonprofit Employer (college, university, other educational or scientific institution) _____

Ai

Its little
PRICE...
is its big
ADVANTAGE



**SAVE
15% to 30%**

After you've compared our price advantage,
compare these other feature advantages:

- Choice of distilled or tap water rinse on any or all three rinse cycles.
- Booster heater to raise water temperature to 70°C (160°F) during final rinse cycle.
- 0-60 minute variable drying time.

Choose from 6 automatic models . . . under counter, free standing or mobile . . . and fifteen stainless steel racks. The CRC Labwasher . . . buy it now. And take advantage of all of its advantages.

Get all the information. Request Bulletin A-501

The CRC Labwasher
Division / The Lab Apparatus Co.

18901 Cranwood Parkway, Cleveland, Ohio 44128
Circle No. 370 on Readers' Service Card

Chromium-51

Ultra high specific activity
200-500Ci/g chromium

NEZ-030—As sodium chromate in normal saline solution (pH ~8) 200-500Ci/g chromium. 1mCi/ml unless otherwise specified. >99.9% radionuclidic purity. (Vanadium removed chromatographically.) Sterilized material \$16 additional.
\$26/0-1mCi \$29/2mCi \$36/5mCi \$42/10mCi \$59/25mCi

Produced approximately every two weeks at specific activities exceeding 200mCi/mg—up to 500mCi/mg from fresh batches. Call to obtain exact shipping dates for highest specific activity.

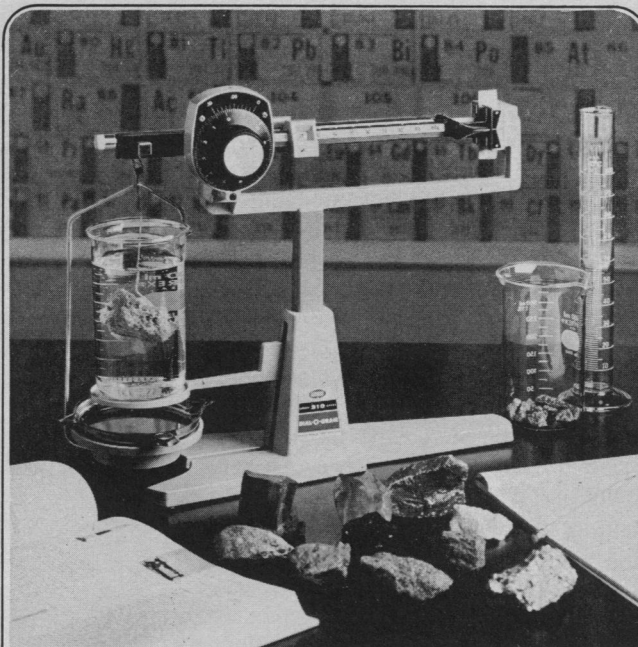
Also available as chromic chloride in ~0.5M HCl solution: NEZ-020 and as a reference standard NES-047S.

NEN New England Nuclear

575 Albany Street, Boston, Mass. 02118
Customer service (call collect) 617-482-9595

NEN Canada Ltd., Dorval, Quebec; NEN Chemicals GmbH, Dreieichenhain, Germany.

Circle No. 274 on Readers' Service Card



Dial-O-Gram 310: direct reading, engraved dial and vernier, magnetic damping, center indicating, windowed poises and only 2 tiered beams provide very high speed, accurate readings. Send for FREE Catalog!

OHAUS Ohaus Scale Corporation
29 Hanover Road
Florham Park, New Jersey 07932
201-377-9000
The Measurement People.

Circle No. 52 on Readers' Service Card



**Introducing
the portable cal lab**
Take it to the job. Calibrate in place.

■ A completely new concept, on-site calibration to save you time and money, to bring you a new standard of performance and convenience. Keep your DVM and DMM specs up to snuff all the time. ■ 10 ppm/month (30 ppm/year) basic dc accuracy over wide temperature range 18°C to 28°C. ■ Carry it anywhere. Weighs only 13 lbs. (5.9 Kg) including rechargeable battery pack for up to 8 hours off-line operation. ■ Human engineered with organized color coded controls, and single output terminals. ■ AC/DC ranges to 100 V. Resistance ranges to 10 megohms. ■ Check accuracy, linearity, stability, ac response, offsets, residuals and ranging.

For data out today dial our toll-free hotline, 800-426-0361

John Fluke Mfg. Co., Inc.
P. O. Box 7428, Seattle, WA 98133



Circle No. 286 on Readers' Service Card for Information
Circle No. 287 on Readers' Service Card for Demonstration

PRODUCTS and MATERIALS

Argon Ion Laser

The CR-12 provides 1 watt in the ultraviolet at 363.8 nanometers and 351.1 nanometers and 12 watts in the visible spectrum from 454.5 nanometers to 528.7 nanometers. The device is guaranteed for 1 year with no limit on the number of hours of operation. The long life is due to a new Brewster-window material which ensures high power and mode stability as well. The CR-12 may be used as a pump source for dye lasers in Raman spectroscopy and in other applications. Coherent Radiation. Circle 773.



Fig. 1. The Bausch & Lomb Spectronic 710 provides digital readout in three modes and features binary coded decimal output as well.

Radiation Survey Meter

Model 497 Radector IV is a wide-range detector of x-rays and gamma and beta radiation. The device features six-decade logarithmic response in two sensitivity ranges: 1 to 1000 millirads per hour and 1 to 1000 rads per hour. Beta radiation with intensities over 200 kiloelectron volts and x-rays and gamma radiation from 50 kiloelectron volts to 1.2 megaelectron volts are detectable. The device is self-contained and it is powered by four 9-volt batteries. Victoreen Instrument Division, Sheller-Globe Corporation. Circle 776.

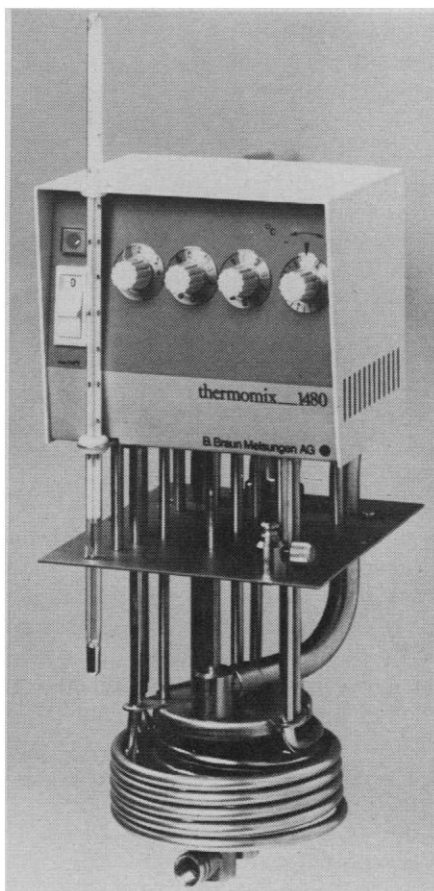


Fig. 2 (left). The 811 digital gaussmeter is available in bench cabinet or rack-mounted configurations. It measures magnetic flux density in five ranges. Fig. 3 (right). Temperature controllers and circulators of the 1400 series from B. Braun Instruments rely on electronic sensors. They offer stability, high heating capacity, and several temperature ranges.

Spectrophotometer

The Spectronic 710 (Fig. 1) detects wavelengths from 200 to 1000 nanometers with a constant 2-nanometer bandpass. Photometric readings in digital display indicate transmittance, linear absorbance, or concentration. A Factor Set button provides retrieval of the absorbance-to-concentration multiplier and permits one to set a known absorbance-to-concentration conversion factor. The operator may choose from among five sampling systems. The lamps are focused deuterium and tungsten types; both the lamps and their power supplies are integral. Bausch & Lomb, Analytical Systems Division. Circle 767.

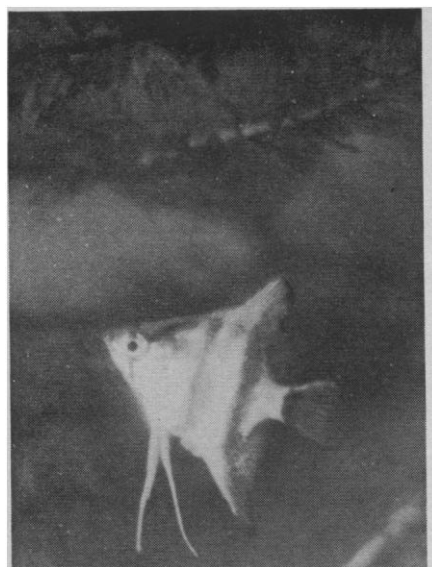
Gaussmeter

The model 811 (Fig. 2) is accurate to within ± 0.2 percent of the full scale. This Hall-effect instrument also offers stability: 100 parts per million from -20° to $+70^{\circ}\text{C}$; ± 0.01 percent of full scale from 90 volts a-c input to 140 volts a-c and a maximum drift of ± 0.1 percent over any time period. Magnetic flux density is digitally displayed and binary coded decimal output options are available. There are five scale ranges from 0 to 10 gauss (0 to 0.001 tesla) up to from 0 to 100 kilogauss (0 to 10 teslas). There are also 110 different Hall-effect probes to choose from. F. W. Bell, Incorporated. Circle 774.

Constant Temperature Circulators

The Thermomix 1400 (Fig. 3) series includes four models. The user may select an instrument for: stability from $\pm 0.02^{\circ}$ to $\pm 0.004^{\circ}\text{C}$; temperature range from -50° to $+250^{\circ}\text{C}$; heating capacity from 750 to 1000 watts; and pumping rates from 3 to 13 liters of water per minute. Electronic sensors are built into all models. Other features include protection against overheating and fully proportional regulation of wattage. B. Braun Instruments. Circle 771.


Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card (see pages 18A and 82C) and placing it in the mailbox. Postage is free.—RICHARD G. SOMMER



HE DEPENDS ON LIGHT


So do plants and other living organisms. That is why the portable, self-contained ISCO Model SR Spectroradiometer is being used for environmental light monitoring under water and in the sky, from the tropics to Antarctica. It is also used for characterization of artificial light sources and other applications.

Using a wedge-interference filter system, the entire spectrum from 380 to 1350 nm can be scanned simply by turning a knob. This system eliminates individual filter changing with preselected wavelength increments which obscure narrow wavelength peaks. Other features include true cosine response, direct reading in spectral intensity units, a chopped beam optical system, and a fiber optic extension head. It is equipped for both battery and line operation. An accessory recorder will plot a continuous spectral distribution curve at preselected intervals.



ISCO Model SR

The new ISCO catalog describes our entire line of research equipment. It is yours for the asking.



BOX 5347 LINCOLN, NEBRASKA 68505
PHONE (402) 464-0231 TELEX 48-6453

Circle No. 367 on Readers' Service Card
90

Gas Chromatograph

The model 163 utilizes glass capillary columns and is resistant to shock and vibration. The columns have an inside diameter of 0.25 millimeter and are coated with liquid phase. The temperature range is from -50° to $+400^{\circ}\text{C}$. Dual flow of carrier gas is independently regulated with a mass flow regulator. The temperature programmer is pulse regulated and there is a 12-stage control of the speed of temperature elevation. The thermconductivity detector is a four-element rhenium-tungsten filament type. Hitachi, Limited. Circle 747.

Metering Pump for Liquid Chromatography

The constaMetric II provides solvent delivery without pulsation against pressures up to 5000 psig at flow rates ranging from 0.1 to 10 milliliters per minute. These pumps feature constant pressure and constant flow capabilities; a panel button allows selection even during operation. Pressure, flow rate, active high limit, active low limit, and temperature may be monitored in digital display. A cam drives two reciprocating positive-displacement sapphire plungers according to a program that causes the sum of the delivery from the two liquid ends to be a constant. This ensures pulse-free operation at all flow rates and pressures. Laboratory Data Control. Circle 768.

Seismic Profile Recorder

Model 255 offers the choice of recording on standard NDK paper or on aluminized Mylar. Features include variable cut-off filter and preamplifier, a time-variable gain control and a print programmer. A tape record and playback system stores the data to supplement the graphic record. Gate position is plotted automatically every 4 minutes. Applications include high-resolution profiling of near subbottom features. EG & G/Environmental Equipment. Circle 769.

Pocket-Sized Calculator

The CP-801 Pocket Mini calculator has an eight-digit display and features automatic square-root determination. It weighs less than 5 ounces and is about

the size of a cigarette package. Power is derived from two penlight batteries which provide up to 24 hours of continuous operation. Another feature is a key designated "C" for the correction of errors made in entering figures for computation. Casio, Incorporated. Circle 770.

Literature

Microtomy Instrumentation contains applications information, specifications, and design features of apparatus for specimen preparation. Damon/IEC Division. Circle 777.

Model 180 Analog/Hybrid Computer and its uses in education research and small-scale industrial processes are described in a series of brochures and pamphlets. Electronic Associates Incorporated. Circle 778.

Matrix Electrostatic Printers, Plotters and Proofers are the subject of Bulletin 113. It is a guide to use, selection, and specifications. Versatec. Circle 779.

Lab Products Catalog includes methods and materials for radioimmunoassay, filtration, and ligand separation. Spectrum Medical Industries Incorporated. Circle 780.

Temperature Control Devices are product sheets that describe baths, jacketed instruments, and open vessels. Haake, Incorporated. Circle 786.

Student Spectroscopy Laboratory describes a series of low-cost undergraduate teaching spectrometers for NMR, ESR, NQR, and microwave applications. International Pammcorp. Circle 782.

Autoprobe is a 16-page full color booklet devoted to a modular automated electron-microprobe/scanning electron microscope. Etec Corporation. Circle 783.

Guide to UV/VIS Cells is a wall chart that summarizes selection criteria, cleaning and maintenance, and cell characteristics. Beckman Instruments, Incorporated. Circle 784.

Bio-Phore is a precast gel electrophoresis system featured in bulletin number 1025. Bio-Rad Laboratories. Circle 785.

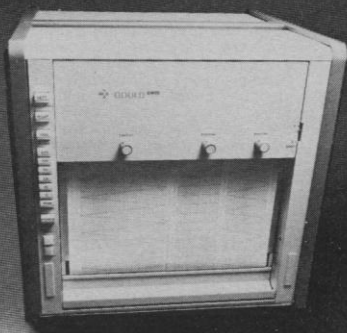
Chemical/Diagnostics Catalog is a guide to reagents, solutions, culture media, clinical test kits, and many other chemical products. VWR Scientific. Circle 763.

Mobility A to Z catalogs vans and trucks that may be custom designed for mobile clinics, research stations, and laboratories for field operations. Calumet Coach Company. Circle 764.

The New Gould 2400: the best performing, most versatile wide channel recorder you can buy.

It is available in 2, 3 and 4 channel configurations utilizing combinations of 50 mm and 100 mm channels totalling 200 mm. It has a 99.65% linearity over the full 100 mm channel. Its frequency response is an outstanding 30 Hz at 100 mm, 50 Hz at 50 mm and up to 125 Hz at reduced amplitude. It has a full range of signal conditioners for just about any scientific-medical application.

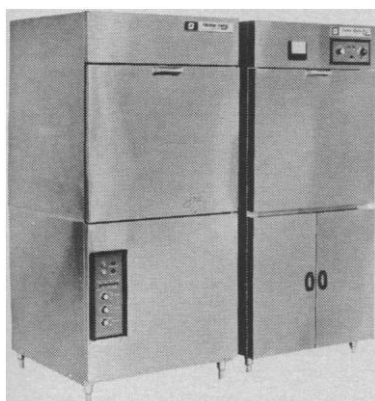
For full details on why the new Gould 2400 is the best performing direct writing recorder you can buy, write Gould Inc., Instrument Systems Division, 3631 Perkins Avenue, Cleveland, Ohio 44114. Or Kouterveldstraat 13, B 1920 Diegem, Belgium.



GOULD

Circle No. 369 on Readers' Service Card

washers & dryers



A family of products
for flexible labora-
tory planning.

by Forma Scientific

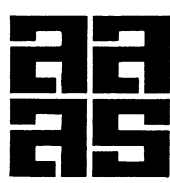
Laboratory glassware washers: undercounter, overcounter, washer and dryer combinations, free standing units in medium and large capacities. Laboratory glassware dryers: undercounter, overcounter, free standing. Cabinet styles: front loading, pass-through and space saving guillotine doors. Automatic, instant cycle selection, no lag time between functions. Automatic steam elimination. Sales and service: Forma Scientific has sales offices throughout the United States and direct factory service in major cities.

Forma Scientific

Box 649, Marietta, Ohio 45750
614/373-4763 • Telex 24-5394

Circle No. 171 on Readers' Service Card

AUDIO



Selected Recordings in Astronomy TAPES

For the past six years, AAAS has recorded selected symposia at its annual meetings, not only as a means of enlarging our audience but also as a valuable aid to education, particularly in classroom or seminar-type settings. The following tapes in the field of astronomy are available from AAAS as 5-inch open reels or as cassettes. Price: single session, \$19.95; multi-sessions, \$19.95 for first session, \$16.95 for each additional session of the same symposium. Approximate length of a single session is 3 hours. A complete listing of AAAS audiotapes is available free of charge on request.

- 12-69 Whither Lunar and Planetary Exploration in the 1970's? (I-III)
- 13-69 Space Astronomy (I-II)
- 14-69 Recent Developments in the Field of Pulsars (I)
- 15-69 Unidentified Flying Objects (I-III)
- 65-70 Interstellar Molecules and Chemistry (I-II)
- 90-71 Astronomy from a Space Platform (I-II)
- 99-71 The Early History of the Earth and Moon (I-II)
- 172-74 Cosmic Evolution (I)
- 177-74 Search for Extraterrestrial Life (I)
- 183-74 The Emerging Portrait of the Planets (I-II)
- 186-74 Velikovsky's Challenge to Science (I)

The hyphenated numbers preceding the symposium titles identify each title by tape number (preceding the dash) and by year of taping (after the dash). Roman numerals following the titles designate the number of sessions in each symposium.

- Money order or check payable to AAAS—No cash.
- Credit sales subject to \$1.50 handling charge.
- Allow 3 to 4 weeks for delivery.
- Please check: _____ Reel _____ Cassette

Tape No. _____ Session No. _____

Tape No. _____ Session No. _____

Tape No. _____ Session No. _____

Name _____

Street _____

City _____

State _____ Zip _____

Send orders and catalog requests to:



Department AT-2
**AMERICAN ASSOCIATION for the
ADVANCEMENT of SCIENCE**
1515 Massachusetts Avenue, N.W.
Washington, D. C. 20005

Personnel Placement

Only those employers who will not discriminate on the basis of race, sex, religion, color, or national origin should submit Personnel Placement advertising.

POSITIONS WANTED: 40¢ per word; use of Box Number counts as 10 additional words. Minimum charge \$10. Prepayment required. This rate applies to individuals only; personnel agencies and companies take display rate for all advertising.

DISPLAY (POSITIONS OPEN, MARKET PLACE, AND SO FORTH): \$110 per inch, minimum (1 inch is equivalent to 12 lines of 48 characters each). Ads over 1 inch billed to nearest quarter inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information must accompany all other advertising.

COPY for ads must reach SCIENCE by Wednesday, 3 1/2 weeks before issue date (Friday of each week) requested. Send copy for all positions wanted ads and display ads under 5 inches to:

SCIENCE, Room 207
1515 Massachusetts Ave., NW
Washington, D.C. 20005

Send copy for display ads, 1/6 page and larger, to:

Scherago Associates, Inc.
11 West 42nd Street
New York, N.Y. 10036

BLIND AD replies should be addressed as follows:

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

POSITIONS WANTED

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

Biochemist, Ph.D., graduate 1975. Research interest: metabolism of cells in tissue culture. Taught college level. Research experience: tissue culture, metabolism, protein isolation-purification, radioisotope methodology. Industrial or academic position. Available January 1975. T. L. Swanson, 4305 Poppleton, Omaha, Nebraska 68105. X

Biochemist, Ph.D., 1972. Sickle cell research, animal care, enzymology, protein chemistry; postdoctoral training in enzyme study, muscular dystrophy treatment and teaching. Seeking teaching/research or industrial research position. Box 1, SCIENCE. X

Wanted: Academic position for **Biochemist/Molecular Biologist** with strong interest in protein chemistry. Broad research experience includes protein characterization with emphasis on automatic sequence techniques. Background is 6 years beyond postdoctoral training in quality medical school. Desire teaching responsibilities if possible. Several publications, supervisory and teaching experience. Box 2, SCIENCE. X

Ph.D. Biochemist, biological psychiatry, psychotropic drug action on brain. Established research program, publications. Research/teaching wanted. Box 3, SCIENCE. X

Biochemist, Ph.D. Desires research position in university, government, or industrial research institute; broad experience and background; postdoctoral training: mitochondrial biochemistry (5 years), brain lipids (2 years); current employment: mitochondrial biochemistry (5 years). Box 5, SCIENCE. X

Biologist, Ph.D., specialized in developmental biology, 16 years of teaching experience, desires position in area of developmental biology and related cell and anatomical sciences and opportunity for research. Box 566, SCIENCE. 1/10, 17

Dermatologist (clinical), age 45, with part-time academic background desires full-time senior university position. Box 7, SCIENCE. X

POSITIONS WANTED

Biologist, Ph.D. Departmental politics and jealousy force well-rounded biologist to seek new challenging position. Not a rebel rouser. Comes with highest recommendations. A popular, outstanding teacher and professional. A real worker who desires to remain in education and build quality program for students. Graduate and undergraduate experience. Box 6, SCIENCE. X

Developmental Biology/Genetics, Ph.D. 1970 (Montana State University). Postdoctoral research, 4 years of teaching, also clinical lab and industry. Seeks teaching/research position in Pacific Northwest/Mountain West or western Canada. Box 559, SCIENCE. 1/10, 17, 31

Foreign Compounds Metabolism. Ambitious young B.S. wishes responsible research position in government, university, or industry. Seven years of experience in independent studies of the metabolism of radiolabeled foreign compounds by animal cell and organ cultures and plant cell cultures. Broad training and research experience in many areas of biochemistry. Several publications. Box 4, SCIENCE. X

Immunologist, Ph.D. Postdoctoral and academic faculty experience in program planning, research/development, teaching and administration. Some academic affiliation desirable. Box 8, SCIENCE. X

Interdisciplinary Biologist, Ph.D. (ecology), J.D. (science and law). Research interests: environmental law and social ramifications of scientific research. Publications. Seeking teaching, research, and/or administrative post. Box 9, SCIENCE. X

Marine Physiological Ecologist, Ph.D. June 1975. Analytical-research experience in effects of oil on pelecypods and respirometry. Publications. Teaching experience in histology, physiology. Strong background in marine ecology. Research interests in marine ecosystems, pathology and physiology. Preferentially seek academic appointment with teaching and research opportunities. Box 10, SCIENCE. 1/24

Microbiologist, Ph.D. Experienced in virology, immunology, cell culture, pathogenic bacteriology; human and veterinary medicine, clinical and research. Publications. Desires academic, industrial or administrative position. Box 11, SCIENCE. X

Microbiologist, Ph.D. More than 15 years of experience in industrial and government research. Research areas: chemical mutagenesis, transferable antibiotic resistance, L-phase transitions, fermentation development of antibiotics, enzymatic conversions of nucleosides and antibiotics. Desire teaching/research position in university, college, or junior college in southwest or west. Box 12, SCIENCE. X

Pharmaceutical Scientist, Ph.D. (1972), pharmaceuticals. Postdoctoral research in pharmacokinetics. Desires academic, industrial or government position. Box 13, SCIENCE. X

Pharmacology, Ph.D. (1974). Training in anti-arrhythmic, smooth muscle and neuromuscular areas. Three years of experience in pharmaceutical quality control and method development. Desires teaching/research or industrial position. Reply Box 14, SCIENCE. X

Physiologist, Ph.D., 1958. Broad medical and paramedical teaching experience. Developed a pathophysiology and integrated physiology course. Cardiovascular research interests with many publications. Desires teaching and research position of associate professor or above. Prefers Northeast. Box 569, SCIENCE. 1/10

Physiologist, Ph.D. 1974. Desires teaching/research position in animal/human physiology. Research experience: Bilirubin/bile acid metabolism, radiotracer techniques, glucose/FFA metabolism, G-6-PD kinetics. Academic: systematic physiology, intermediary metabolism, pharmacology. L. R. Engelking, Department of Veterinary Physiology, Kansas State University, Manhattan, 66506.

Physiologist-Toxicologist, Ph.D. 1969. Postdoctoral and independent research. Pharmacodynamics of pesticides, environmental agents using perfused organs. Desire government, industry, or academic position. Box 15, SCIENCE. 1/17

Physiologist, Ph.D. Experienced teacher of mammalian, comparative physiology. Research training and experience in neuro- and sensory physiology; seeking academic position. Box 16, SCIENCE. 1/17

Virologist/Microbiologist, Ph.D. Desires research position in mammalian virology. Experience with numerous viruses of veterinary importance, cell culture, immunofluorescence, and interferon induction. Two years of postdoctoral experience in industry. Publications. Box 19, SCIENCE. X

POSITIONS WANTED

Plant Ecologist, Ph.D. 1975. Publications. Experience in vegetation analysis, environmental impact assessment, and land-use planning. Desires research/administrative position in industry or government. Box 17, SCIENCE. X

Reproductive Physiologist/Endocrinologist. Postdoctoral, radioimmunoassay, clinical chemistry experience, publications. Desires teaching/research in college, small university, or hospital, anywhere. Box 18, SCIENCE. X

Ph.D. Zoology. Fifteen years of teaching in general entomology, medical entomology, parasitology, vertebrate anatomy, invertebrates, ecology. International experience. Specialty mosquitoes. Publications. Seeking teaching/research position. Box 20, SCIENCE. X

POSITIONS OPEN

ASSISTANT PROFESSORSHIP EFFECTIVE SEPTEMBER 1975

Applications invited from persons whose research interests are phyecology, lower plant development (especially membrane biogenesis, metabolic control and/or cell wall biogenesis), or molecular genetics. Ph.D. required. Candidates must be qualified to teach a general biology course which emphasizes biology in human affairs, and have an interest in such a course. Opportunity to establish advanced course in research area also provided. Applications must include curriculum vitae, detailed statement of research interests, copies of publications, and three letters of evaluation. Send to **Dr. Charles B. Beck, Chairman, Department of Botany, Biological Sciences Group, University of Michigan, Ann Arbor, Michigan 48104.** The University of Michigan is a nondiscriminatory affirmative action employer.

ASSISTANT PROFESSORSHIPS IN CELLULAR IMMUNOLOGY, MICROBIAL REGULATION, AND PHYSIOLOGICAL ECOLOGY

A rapidly growing, well-equipped modern department of biological sciences located in the hills outside Baltimore is seeking scientists with postdoctoral research experience who have demonstrated their ability to initiate a vigorous research program. Candidates must also have a commitment to quality graduate and undergraduate teaching. 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

The Department of Veterinary Physiology and Pharmacology invites applications for a position at the **Assistant Professor** level in the field of nuclear medicine and/or radiobiology effective August 1975, or sooner. Applicants should have Ph.D.; D.V.M. or other professional degree is desirable but not required. Individuals should have training in nuclear and/or radiation science as well as in physiology. Duties include about a 70 percent time allocation to clinical and basic research involving radioisotope usage and detection and the remaining allocation involving professional and graduate teaching. Related research in this department includes mineral metabolism, metabolic disease, and various bioengineering projects. The selected individual may work in these areas or may establish his or her own research effort within the realm of nuclear medicine and/or radiobiology. Salary is based on qualifications with a minimal 11-month stipend of \$16,000. *The University of Illinois is an Equal Opportunity/Affirmative Action Employer* and encourages applications from qualified women and minorities. Send curriculum vitae and names of three referees to **Dr. A. R. Twardock, Acting Head, College of Veterinary Medicine, University of Illinois, Urbana, Illinois 61801.** Telephone 217-333-1192. Applications should be received by 15 February 1975.

DIRECTOR, AGRICULTURAL EXPERIMENT STATION

The School of Agriculture at Oregon State University invites applications for the position of Director, Oregon Agricultural Experiment Station, and Associate Dean of Agriculture. Completed applications should be received by 1 February 1975. *Oregon State University is an Affirmative Action Employer and encourages applications from qualified females and minorities.* For further information write: **Dr. G. H. Arscott, Chairman, Search and Nomination Committee, Office of the Dean of Agriculture, Oregon State University, Corvallis, Oregon 97331.**

The Book Store

This section is designed to provide SCIENCE readers with a rapid means of ordering the books advertised below. In order to obtain a 10-day free trial copy of any book listed, circle the number appearing below it on the Readers' Service Card (pages 18A and 82C). All publishers represented reserve the right to bill for books not returned within 10 days after receipt.

ENVIRONMENTAL PHYSIOLOGY, edited by N. BALFOUR SLONIM, M.D., Ph.D.; with 22 contributors.

Covering the effects of different environmental stress factors on human systems, this new book begins with a discussion on the place of environmental physiology and concludes with a perspective on the effects of this study on man's future. Topics include biorhythmicity, biometeorology, heat, cold, humidity, sound and vibration, and more! Published by The C. V. Mosby Co. June 1974. 584 pp., 287 illus. \$37.50.

To order this book
Circle No. 318 on Readers' Service Card

NORBERT WIENER: COLLECTED WORKS

Volume I: Mathematical Philosophy and Foundations; Potential Theory; Brownian Movement, Wiener Integrals, Ergodic and Chaos Theories, Turbulence and Statistical Mechanics

edited by P. Masani
\$25.00; further volumes forthcoming

The MIT Press
Cambridge, Massachusetts 02142

To order this book

Circle No. 178 on Readers' Service Card

ACTION AT A DISTANCE IN PHYSICS AND COSMOLOGY

F. HOYLE, California Institute of Technology, and J. V. NARLIKAR, Tata Institute of Fundamental Research

Action at a distance is a relativistically invariant particle interaction, not the instantaneous action at a distance of Newton. Such an approach to physics avoids certain defects of field theory, such as metric singularities. The authors concentrate on electrodynamics and gravitation in developing their views. An important conclusion of this study is that the universe may be a much larger structure than is generally assumed. 1974, 266 pp., 18 illus., \$15.00

To order this book
Circle No. 332 on Readers' Service Card

ASTROPHYSICS OF GASEOUS NEBULAE

DONALD E. OSTERBROCK, Lick Observatory, University of California, Santa Cruz

This up-to-date book presents the basic theory of the gaseous nebulae, using both observational and theoretical results. The book includes an annotated bibliography, many photographs, and an appendix listing the standard names and numbers of many nebulae. For graduate students and research workers in astronomy and physics, this book contains the material necessary for understanding research papers on gaseous nebulae now being published and for beginning original research. 1974, 251 pp., 56 illus., 59 tables, \$17.00

To order this book
Circle No. 352 on Readers' Service Card

GRAVITATION

CHARLES W. MISNER, University of Maryland, KIP S. THORNE, California Institute of Technology, and JOHN ARCHIBALD WHEELER, Princeton University

"John Archibald Wheeler . . . together with his one-time students, Charles Misner and Kip Thorne, has presented in a massive book his view of general relativity, as based on a 20-year love affair with it. . . . The result is a pedagogic masterpiece that will teach any alert student both insight and technique, and, starting from the foundations of the theory, will prepare him to face most of the rigors of the current research literature. . . . In this era of intense interest in gravitation we may be grateful to Misner, Thorne, and Wheeler for guiding us through its intricacies with such insight."—*Science*, 22 March 1974 1973, 1279 pp., 137 illus., 163 boxes cloth \$39.50, paper \$19.95

To order this book
Circle No. 353 on Readers' Service Card

W. H. Freeman and Company
660 Market Street
San Francisco, California 94104

THE SYNTHESIS OF LIFE (Benchmark Papers in Organic Chemistry). Edited by Charles C. Price, University of Pennsylvania. A penetrating survey of the important, recent developments in the search to understand the structure and function of living systems and ultimately to synthesize them. The 26 papers in this volume either describe the original experimental results or summarize and correlate them. Papers are arranged in three sections, focusing respectively on the natural synthesis of biomonomers, the synthesis of biopolymers, and self-organizing systems of biopolymers. A Dowden, Hutchinson & Ross Publication. Distributed by HALSTED PRESS/WILEY. 1974, 391 pp., \$22.00.

To order this book
Circle No. 366 on Readers' Service Card

THE LIFE OF BIRDS, Jean Dorst. In these two magnificent volumes a world-famous ornithologist presents the first truly ecological study of bird life. A unique work emphasizing the relationships between physical structure, habitat, and the factors regulating population. A must for conservationists. 1974. 2 vols. 700 pp. illus. \$35.00



COLUMBIA UNIVERSITY PRESS

To order this book
Circle No. 354 on Readers' Service Card

STUDIES ON EXCITATION AND INHIBITION IN THE RETINA

edited by Floyd Ratliff, H. Keffer Hartline conducted research on vision and the retina . . . extending into many and diverse branches of the field, including study of retinas of various representatives of each of the three major phyla having well-developed eyes. This collection of papers begins with one published early in his career when he and C. H. Graham first recorded the electrical activity of single optic nerve fibers, and ends with his recent Nobel Lecture. The collection thus spans the entire history of this major branch of visual physiology. Publisher: The Rockefeller University Press, 1230 York Avenue, New York 10021. 1974, 688 pp., illus., cloth \$22.00

To order this book
Circle No. 349 on Readers' Service Card

ARMIN C. BRAUN

The Biology of Cancer

Written for the beginner and professional with a background in the basic biological sciences interested in gaining insight into our present understanding of the cancer problem. Identifies the essential biological concepts that underlie the tumorous state and critically evaluates the premises upon which prevailing thought in the field of experimental oncology is based. 1974, xii, 169 pp., illus.; hardbd. \$9.50, ISBN 0-201-00764-9; paperbd., \$4.50, ISBN 0-201-00765-7.

To order this book
Circle No. 330 on Readers' Service Card

FRED W. McLAFFERTY

Interpretation of Mass Spectra

SECOND EDITION, Revised, Enlarged, Reset "McLafferty is a pioneer in the field . . . I highly recommend this book to any chemist or scientist who wishes to become familiar with or skilled in the interpretation of mass spectra."—*J. Am. Chem. Soc.* 1973 (2nd printing, with corrections, 1974), xx, 278 pp., illus.; paperbd. \$7.50, ISBN 0-805-37059-X

To order this book
Circle No. 362 on Readers' Service Card

G.B. FIELD, H. ARP, J. N. BAHCALL

The Redshift Controversy

"Here is a blow-by-blow account of one of the most passionately disputed issues in modern physics . . . This is a fascinating and stimulating document on a great scientific puzzle."—*New Scientist*. 1973, xvi, 324 pp., illus.; hardbd. \$19.50, ISBN 0-805-32512-3; paperbd. \$11.00, ISBN 0-805-32513-1

To order this book
Circle No. 363 on Readers' Service Card

NICHOLAS J. TURRO

Molecular Photochemistry

Sets forth the theoretical foundations of molecular photochemistry and applies this theory to the study of reaction mechanisms. 1965 (3rd printing, 1974), xiv, 286 pp., illus.; paperbd. \$12.50, ISBN 0-805-39351-X

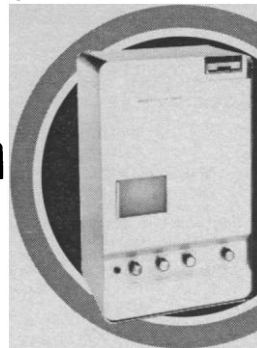
To order this book
Circle No. 364 on Readers' Service Card

Please order by ISBN no.

ADDISON-WESLEY Advanced Book Program
Reading, Mass. 01867

15-Second Prints

Cordis Immuno-Diffusion Camera



Ideal for photographing in-progress or final results of 1 and 2 dimensional IDF, immuno- and membrane disc electrophoresis, hemagglutination, pregnancy tests, blood typing, bacterial sensitivities and counts. Yields clear, sharp Polaroid prints of wet, dry, stained or unstained translucent materials. Faint or closely-spaced precipitin lines are easy to see and interpret because you can select light- or dark-field illumination at 1.9 or .9 magnification. Supplied with light diffuser, film, positioning adapters for slides and plates. Write or call for technical literature, demonstration in your laboratory.

cordis Cordis Laboratories
a division of Cordis Corporation
P. O. Box 428,
Miami, Fla. 33137

Toll-free phone: (800) 327-7621

Circle No. 346 on Readers' Service Card

Just Published . . .

ENERGY: Use, Conservation, and Supply

Interested in understanding the energy problems we face, in finding practical solutions to these problems? Then you're sure to want a personal copy of this new AAAS compendium. It presents a collection of enduring and readable articles that originally appeared in *Science* during 1973-1974—articles providing a wealth of information for everyone concerned with the profound and far-reaching effects of the energy problems that continue to alter our traditional modes of supply and patterns of usage.

Edited by and with an introduction by Philip H. Abelson. Retail price: Case-bound, \$12.95; Paperbound, \$4.95. AAAS member price, prepaid: Case-bound, \$11.95; Paperbound, \$4.45.

Send orders to Dept. EC-2

AMERICAN ASSOCIATION of the
ADVANCEMENT OF SCIENCE
1515 Massachusetts Avenue, N.W.
Washington, D. C. 20005

POSITIONS OPEN

UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE SCHOOL OF BASIC MEDICAL SCIENCES AT URBANA-CHAMPAIGN

Position Opening Assistant Professor

MICROSCOPIC ANATOMIST: To participate in curriculum development and supervision of medical students learning in a self-paced, guided study program; major responsibilities in conducting seminars and/or tutorial sessions; will hold joint appointment in one department of School of Life Sciences, University of Illinois, Urbana-Champaign campus.

SALARY: Open, Ph.D. and/or M.D. with capacity for original research as evidenced by publications of high quality; preference given to candidates with postdoctoral experience in appropriate department.

APPOINTMENT EFFECTIVE: Open to negotiation.

Address correspondence to Ray L. Watterson, Chairman, Search Committee, 515 Morrill Hall, University of Illinois, Urbana, Illinois 61801.

The University of Illinois is an AFFIRMATIVE ACTION-EQUAL OPPORTUNITY EMPLOYER and encourages applications from members of minority groups and women.

ASSISTANT PROFESSOR—BIOCHEMISTRY

Full-time faculty positions are available for candidates committed to pursue fundamental research programs in membrane biochemistry or eukaryotic molecular biology. Participation is expected in biochemistry courses for medical students, graduate students and undergraduates. Applications close 1 February 1975. Send résumé and three letters of reference to: **Chairman, Department of Biochemistry, College of Medicine, University of Kentucky, Lexington, Ky. 40506.** *The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.*

CELL BIOLOGY TECHNICIAN

Position open for person with M.A. or B.A. in Biology, to assist in a variety of research projects in an active Cell Biology Department, with opportunities to learn new techniques.

Proficiency is expected in the preparation of tissues for electron microscopy (embedding, sectioning, darkroom work). Experience in autoradiography, cytochemistry, and freeze-cleavage techniques is helpful, but not necessary. Some background in biochemical techniques (cell fractionation, biochemical assays) is desirable.

Work on tissues, cell suspensions, and cell fractions under the direction of Dr. Marilyn G. Farquhar, Section of Cell Biology, Yale University School of Medicine.

Liberal fringe benefit program including contributory comprehensive group practice health insurance plan for employee and dependents, life insurance, 12 holidays, 1 month's vacation, employer paid pension plan, university facilities and programs.

Send résumé including salary requirements to: Personnel Department



Yale University
School of Medicine

333 Cedar St. New Haven, Conn. 06510

Female and minority group applicants are encouraged to apply.

An equal opportunity employer m/f

POSITIONS OPEN

ASTROPHYSICS POSITION AT NEW YORK UNIVERSITY

The Physics Department of New York University in the Fall of 1975 expects to have a faculty position for an astrophysicist. Although the position would normally be at the assistant professor level, a more senior appointment may be possible for a highly qualified individual. A theoretical astrophysicist would probably be appointed, but observers with suitable programs should also feel free to apply. Candidates must be able to conduct research of significance and to contribute strongly in the department's undergraduate teaching program. Applications should be submitted to **Professor E. L. Schucking, Chairman of the Search Committee, 4 Washington Place, New York, N.Y. 10003.** *NYC is an equal opportunity, affirmative action employer.*

BIOCHEMIST Ph.D.

Health foundation seeks steroid biochemist with experience investigating biochemical aspects of breast and prostatic carcinoma; working knowledge of radioimmuno assays. Location will be Westchester County, New York. Salary open. Send curriculum vitae to: **Personnel Department, American Health Foundation, 1370 Avenue of the Americas, New York, New York 10019.** *An equal opportunity employer*

DEPARTMENT OF BIOLOGY, HARVARD UNIVERSITY. This Department expects to make several nontenure appointments at the **ASSISTANT or ASSOCIATE PROFESSOR** level for the forthcoming year. Fields of interest include genetics, ecology, developmental biology, and plant physiology and biochemistry. However, applications from outstanding candidates in related areas will be welcome. Preference will be given to candidates with teaching experience, records of research accomplishments, and postdoctoral training.

The University is an equal opportunity employer; women and members of minority groups are specifically encouraged to apply. Please have two professional persons who are well acquainted with your work write directly to us concerning you and send your résumé, together with copies of your most significant publications, to **Chairman, Search Committee, Department of Biology, 16 Divinity Avenue, Cambridge, Mass. 02138** prior to 15 February 1975.

DEPARTMENT OF BIOLOGY

Applications are invited for the position of Bacterial Systematist. The successful candidate must also have a good background in either Bacterial Physiology or Immunology. A background in Bacterial Genetics would also be desirable. Appointment will be made at the Assistant Professor level, to commence 1 September 1975. Applicants should have a strong interest in undergraduate teaching and be capable of initiating an independent research program.

Closing date for receipt of applications: 15 March 1975. Apply to **Professor J. Phipps, Head, Department of Biology, Memorial University of Newfoundland, St. John's, Newfoundland, Canada.**

Applications are invited for **CHAIRPERSON** of the department of biology. The department has 34 full-time faculty and offers a wide spectrum of programs leading to B.A., M.S., and Ph.D. degrees. An individual with distinguished record of achievement in research and teaching and evidence of administrative ability or potential is sought. Please respond with curriculum vitae and references to **Chairperson, Search Committee, Department of Biology, University of South Florida, Tampa, Florida 33602.** Deadline for applications: 15 February 1975. *An Equal Opportunity, Affirmative Action Employer.*

Minot State College seeks progressive **CHAIRMAN** to lead in developing programs that will attract quality students. Ph.D. required. Grant experience, teaching and administrative experience, and interdisciplinary background are desirable. Salary \$16,000 to \$20,000, commensurate with qualifications. Send curriculum vitae and three letters of recommendation to **Dr. J. A. Ward, Science Search Committee, Minot State College, Minot, North Dakota 58701.** *An Equal Opportunity/Affirmative Action Employer.*

DEAN OF THE FACULTY OF SCIENCE

The newly established Faculty of Science of the University of Regina requires a dean to consolidate programs and provide leadership. The university is seeking a person with an established reputation in research and with successful administrative experience. The Faculty contains six departments and 70 permanent faculty members. The Faculty offers 3- and 4-year undergraduate programs and graduate programs to the Ph.D. level.

Please apply to **Mr. D. T. Lowery, University Secretary, University of Regina, Regina, Saskatchewan, Canada, S4S 0A2.**

POSITIONS OPEN

ASSOCIATE DEAN FOR ACADEMIC AFFAIRS SCHOOL OF PUBLIC AND ENVIRONMENTAL AFFAIRS INDIANA UNIVERSITY

Full professor rank on a 12-month basis to assist in the development and administration of undergraduate and graduate degree programs in statewide school. Requires ability to work in interdisciplinary programs with emphasis on public management and applied science and technology, demonstrated administrative capability, significant experience in development or direction of educational or scientific programs, national professional recognition as evidenced by publications, membership on national boards or commissions, and prominence in activities of professional or scientific associations. Appointment should begin no later than 1 July 1975. *Women and members of minority groups are encouraged to apply.* Compensation competitive and negotiable. For further information write to: **Lynton K. Caldwell, Chairman, Search and Screen Committee, School of Public and Environmental Affairs, Indiana University, 1026 East Third Street, Bloomington, Indiana 47401.**

DEANSHIP COLLEGE OF VETERINARY MEDICINE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Applications and nominations are invited for the position of Dean of the College of Veterinary Medicine. Applicants must possess a D.V.M. degree or its equivalent. A strong educational-research background, administrative experience, and evidence of leadership abilities are all prime requisites.

Applications with current résumés should be submitted to **Dr. Edward W. Voss, Jr., Chairman, Consultative Committee for the Deanship of the College of Veterinary Medicine, Department of Microbiology, 131 Burrill Hall, University of Illinois at Urbana-Champaign, Urbana, Illinois 61801.**

The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups and women.

UNIVERSITY OF MASSACHUSETTS, AMHERST POSITION AVAILABLE

DEAN, NATURAL SCIENCES AND MATHEMATICS. Academic, administrative, and fiscal responsibility for departments of Botany, Zoology, Microbiology, Biochemistry, Physics/Astronomy, Chemistry, Geology/Geography, Polymer Science, Computer Science, and Mathematics/Statistics. Departmental spokesman to Chancellor and Vice-Chancellor for Academic Affairs, Amherst Campus. Established scientist or mathematician. Administrative experience, funding-source knowledge, concern for instructional and research excellence, fiscal and personnel decisiveness, sensitivity to changing educational scene. Academic appointment in appropriate department. Tenure dependent upon qualifications. Nominations and applications of qualified candidates with curriculum vitae and three reference names by 17 January 1975, to **Prof. C. P. Swanson, Chairman, Search Committee, Botany Department, Morrill Hall, Amherst 01002.** The University is state supported with 17,000 undergraduate and 6,000 graduate students. *An Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF ILLINOIS SCHOOL OF CLINICAL MEDICINE URBANA-CHAMPAIGN

POSITION OPENING

DIRECTOR OF CLINICAL NUTRITION: To develop program in clinical nutrition with responsibility for health science student education, graduate program development, research, and collaboration with campus-wide interests in nutrition; will also participate in medical school curriculum development.

SALARY: Open. M.D. required; M.D.-Ph.D. preferred; full professional rank for qualified individual.

APPOINTMENT EFFECTIVE: Immediately.

Address correspondence to **Morton C. Creditor, M.D., Associate Dean, University of Illinois College of Medicine, 1205 West California, Urbana, Illinois 61801.**

The University of Illinois is an AFFIRMATIVE ACTION-EQUAL OPPORTUNITY EMPLOYER and encourages applications from members of minority groups and women.

POSITIONS OPEN

DIRECTOR OF LABORATORIES

Ph.D. in Chemistry with some experience in laboratory planning and design of experiments. Several years of college or university chemistry teaching experience required. Will be responsible for freshman and sophomore laboratories including scheduling, supervising of teaching assistants, and ordering of chemicals. Female and minority applicants are urged to apply. Send résumé and three letters of recommendation to **Chairman, Search Committee for Laboratory Director, Department of Chemistry, State University of New York at Buffalo, Buffalo, New York 14214. The University is an Equal Opportunity/Affirmative Action Employer.**

DIRECTOR ATMOSPHERIC SCIENCES RESEARCH CENTER STATE UNIVERSITY OF NEW YORK AT ALBANY

Senior scientist with administrative experience and national reputation in atmospheric research. Reply to:

Dr. Vincent Cowling
State University of New York at Albany
1400 Washington Avenue
Albany, New York 12222

State University of New York is an Equal Opportunity Employer.

ELECTRON MICROSCOPIST-BIOLOGIST with interest in exploiting capabilities of a state of the art high-resolution (2.5 angstroms) Scanning Transmission Electron Microscope (STEM) nearing operational status at Brookhaven National Laboratory. Desirable prerequisites include experience in high-resolution transmission microscopy, background in biophysics, experience in specific heavy atom labeling, interest in developing new techniques, and knowledge of computer use. A primary interest in utilizing the STEM for problems of biology is essential. Applicants for an appointment at the level of Assistant Professor should send curriculum vitae and three references to: **Dr. Myron C. Ledbetter, Biology Department, Brookhaven National Laboratory, Associated Universities Inc., Upton, Long Island, N.Y. 11973. An Equal Opportunity Employer M/F.**

FACULTY POSITION

The University of California, Irvine, Department of Biological Chemistry in the College of Medicine invites applications for a faculty appointment as an Assistant Professor. Applicants will also be considered for appointment at the Associate Professor level. Teaching responsibilities involve instructing medical students and graduate students in selected areas of biochemistry. Research experience and interest in molecular biology, control mechanisms, and/or enzymology is preferred. Faculty members are expected to develop a strong, independent, research program. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Send curriculum vitae and two letters of reference to:

Dr. Kivie Moldave
Department of Biological Chemistry
College of Medicine
University of California, Irvine
Irvine, Calif. 92664

FACULTY POSITION. Assistant Professor with research duties in the areas of nucleic acid biochemistry and molecular biology. Ph.D. degree in biochemistry required with postdoctoral experience desirable. Send résumé, reprints, and names of three references to **A. C. Wiese, Department of Bacteriology and Biochemistry, University of Idaho, Moscow, Idaho 83843. The University of Idaho is an Equal Opportunity, Affirmative Action Employer.** Closing date for applications is 1 March 1975.

FACULTY POSITION MARINE SCIENCE

The University of Texas at San Antonio and the University of Texas Marine Institute, Port Aransas Laboratory, are offering a joint appointment in estuarine biology or ecology beginning summer or fall 1975. Special interest and training in the living resources of coastal waters is required. Applicants are sought at the assistant professor level and must show strong potential in both research and teaching. Send curriculum vitae, references, and a brief statement of research and teaching interests to **Director, Allied Health and Life Sciences, The University of Texas at San Antonio, 4242 Piedras Drive East, San Antonio, Texas 78285. An affirmative action/equal opportunity employer.**

POSITIONS OPEN

ELECTRON MICROSCOPIST

Position in West Germany for ambitious young M.D. or Ph.D. to supervise electron micrographic studies related to ongoing collaborative program project in lung transplantation. Knowledge of German not required. Opportunity for independent research as well as continuation of present projects guarantees excellent academic productivity with many chances for senior authorship. Guidance and assistance from experienced Pulmonary Electron Microscopist (Professor S. Blümcke) will be available. Unlimited facilities and American technical assistance. Friendly atmosphere in English-speaking laboratory at Institute of Pathology, Medical School of Essen. Salary according to qualifications up to \$1500 per month, plus transportation to and from the United States. Six-week paid vacation per year. Contact **Dr. F. J. Veith, Montefiore Hospital, 111 East 210 Street, New York, N.Y. 10467** or **Dr. S. Blümcke, 42 Essen Rellinghausen, Kantorie 45, West Germany.**

CORNELL UNIVERSITY—HEAD FOR DEPARTMENT OF DESIGN AND ENVIRONMENTAL ANALYSIS. Department concerned with design principles; interior, product, and apparel design; textile science and technology; human factors; and sociopsychological aspects of environments. Programs in teaching, research, and extension/public service. Applicants should have demonstrated leadership and administrative abilities and possess a strong interest in multidisciplinary approaches to problem-solving. Salary open. Write or call for additional information. Send résumé and references, before 1 February 1975, to **William H. Gauger, Assistant Dean, Chairman, DEA Search Committee, N-117a Martha Van Rensselaer Hall, New York State College of Human Ecology, Cornell University, Ithaca, New York 14853. Telephone: 607-256-2093.** (Search Committee representative will also be available at January AAAS Meeting in New York City. Call collect for appointment.)

Affirmative Action/Equal Opportunity Employer

THE DEPARTMENT OF PATHOLOGY UNIVERSITY of ALABAMA in BIRMINGHAM

This department is seeking applications from academic pathologists (M.D.) for appointment to our faculty at the Instructor or Assistant Professor level. More than one opening exists now. *This university has an Affirmative Action Program.* Candidates should send a curriculum vitae, list of publications, and a brief outline of their career aims and research capabilities. Provide also the names of senior pathologists familiar with their qualifications. Salaries are competitive. Send applications as soon as possible to the **Chairman, Department of Pathology, University of Alabama in Birmingham, Birmingham, Alabama 35294.**

POSITIONS OPEN

INHALATION TOXICOLOGIST

SAN FRANCISCO BAY AREA

SRI is expanding its Inhalation Toxicology Department and seeks applicants with interests in acute and chronic animal studies in areas relating to aerosols, vapors, and gases, to assess changes via toxicological, physiocological and cytological means.

A proven ability to prepare reports and proposals and presentation of papers is highly desirable. Current programs are supported by federal agencies, private industry, and in-house R & D funding.

SRI is a worldwide organization conducting research for business, industry, and government. Excellent benefits are offered including a noncontributory retirement program.

Please send résumé, including salary requirements, to **Mrs. H. T. Wherry, Personnel Coordinator, STANFORD RESEARCH INSTITUTE, Menlo Park, Calif. 94025.** An equal opportunity employer



JPL NEEDS SYSTEMS ANALYSTS

Apply systems analysis approach to problems in energy and environment, transportation and traffic, law enforcement, transportation and medical and health care delivery systems and other civil areas.

Advanced degree in engineering, operations research, environmental science, economics, or similar field and experience in systems analysis on diverse systems.

Contact **JET PROPULSION LABORATORY, Department 521, 4800 Oak Grove Drive, Pasadena, California 91103.**

CHAIRPERSON

DEPARTMENT OF MEDICINE COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY— NEW JERSEY MEDICAL SCHOOL

Nominations and applications are invited for the position of Chairperson, Department of Medicine, College of Medicine & Dentistry of New Jersey—New Jersey Medical School. The responsibilities of the Chairperson are those of Academic and Administrative Head of a major clinical department. Qualifications include proven academic ability and strong administrative leadership. Curriculum vitae and nominations should be sent to:

DR. MARVIN A. KIRSCHNER

Chairman Search Committee in Medicine Deans Office



COLLEGE OF MEDICINE & DENISTRY OF NEW JERSEY— NEW JERSEY MEDICAL SCHOOL

100 Bergen Street
Newark, New Jersey 07103

An Equal Opportunity Employer/Affirmative Action Employer

POSITIONS OPEN

The Johns Hopkins University **ENVIRONMENTAL ENGINEERING FACULTY** appointment: teaching and research involving chemical, biochemical, and biological processes related to treatment of municipal and industrial wastes, industrial processes and to assessment of environmental impact. Assistant professor; may consider higher rank depending upon qualifications. *Johns Hopkins is an equal opportunity employer.* Send résumé to: **Dr. M. Gordon Wolman, Chairman, Department of Geography and Environmental Engineering, The Johns Hopkins University, Baltimore, Maryland 21218.** Telephone: 301-366-3300, extension 318.

AUSTRALIA UNIVERSITY OF MELBOURNE LECTURESHIP (LIMITED TENURE) IN THE DEPARTMENT OF ZOOLOGY

Applications are sought from Zoologists with interests and experience in the ecology of populations and communities.

Duties will include general undergraduate teaching in ecology at all levels, the major responsibility for a unit course in ecology in the second year, establishment of a research programme and the supervision of research students.

The appointee will be expected to take up duties as soon as possible after 1 June 1975.

Salary: Aust. \$9,002 to \$12,352 per annum.

Further information including details of application procedure and conditions of appointment is available from **The Registrar, University of Melbourne, Parkville, Vic., 3052, Australia.** Applications referring to Position No. 654001 should be addressed to The Registrar and close on 31 January 1975.

THE AMERICAN NATIONAL RED CROSS BLOOD RESEARCH LABORATORY

Independent position available for physiologist at senior or immediate postdoctoral level to initiate program on any aspect of the physiology of blood, blood cells or cell membranes related to the mission of the American Red Cross Blood Program. Curriculum vitae, bibliography, and outline of research interests to: **Mrs. Kaye Boesel, Office of Personnel, American National Red Cross, 18th and D Streets, NW, Washington, D.C. 20006.**

NEUROPHYSIOLOGIST

Applications are invited for a faculty position in the Department of Physiology. Rank is open. Research experience in the physiology of the **CENTRAL NERVOUS SYSTEM** is essential with an interest in **SENSORY PHYSIOLOGY** preferred. Postdoctoral or equivalent experience is required. Responsibilities include instruction to graduate, medical, or other professional students. Candidates are expected to develop a strong research program and should be able to obtain extramural research support. Applications from women and minority group candidates are encouraged. Send curriculum vitae and references to:

**Dr. Norman Briggs
Department of Physiology
Medical College of Virginia
Richmond, Virginia 23298**

POSTDOCTORAL IN MICROBIOLOGY

Position currently open in oral microbiology research. Candidates should have specific abilities in streptococcal transformation, carbohydrate chemistry, enzymology, chromatography. Applications from women and minorities welcomed. Salary approximately \$8,000. Send complete curriculum vitae to **Dr. Michael L. Freedman, B-7043, University of Connecticut Health Center, Farmington, Conn. 06032.** *An Equal Opportunity Employer M/F.*

POSTDOCTORAL RESEARCH ASSOCIATE

Immediate opening for recent Ph.D. in Biochemistry to work on neurochemical research of mammals with emphasis on catecholamine metabolism. Salary to start at \$10,000 per year. Send curriculum vitae and three letters of recommendation to **Dr. Albert Y. Sun, Sinclair Comparative Medicine Research Farm, University of Missouri, Columbia, Missouri 65201.**

POSITIONS OPEN

BIO/ORGANIC CHEMIST

Hoechst, an international leader in the chemical/pharmaceutical field, has two excellent opportunities in its Behring Diagnostics Research Department as a result of continued expansion: Requirements include:

SENIOR RESEARCH CHEMIST

Ph.D. in Organic Chemistry or Biochemistry with 0 to 3 years of experience in protein chemistry.

RESEARCH CHEMIST

B.S. Degree in Chemistry or Biochemistry with experience in enzymology through independent academic research or industry.

Duties include Research & Development of immunological diagnostic reagents. Excellent benefits and growth potential. Positions located at our new corporate headquarters in suburban New Jersey. Send résumé with current annual earnings in confidence to **Mr. R. Walters, Personnel Recruiter.**

Behring Diagnostics

AMERICAN HOECHST CORPORATION

**Route 202-206 North
Somerville, N.J. 08876**

An Equal Opportunity Employer (F/M)

PHYSIOLOGIST competent in either renal or neurophysiology for vacancy in our teaching faculty at either assistant or associate professor level. Previous teaching experience necessary. *This university is an Equal Opportunity Employer.* **D. F. Magee, Chairman, Department of Physiology and Pharmacology, Creighton University Medical School, Omaha, Nebraska 68178.**

POSTDOCTORAL POSITION IN COSMIC RAY PHYSICS

The Physicist will work on building and operating apparatus designed to make precision measurements of the cosmic ray anisotropy near 1 TeV. Candidates should be experienced in the use of minicomputers. Applications should be sent to **Peter Gibbs, Chairman, Department of Physics, University of Utah, Salt Lake City, Utah 84112.** Telephone: 801-581-7468. *An equal opportunity employer.*

POSTDOCTORAL POSITION available immediately for chemical and structural studies of HbS fiber formation. Strong background in protein chemistry is essential, and experience in Hb chemistry is preferred. Chemical studies will be integrated with EM and x-ray diffraction, and computer image processing. Send detailed curriculum vitae and three letters of reference by 30 January 1975 to **Dr. M. W. Makinen, Department of Biophysics and Theoretical Biology, University of Chicago, 920 East 58 St., Chicago, Ill. 60637.**

PROFESSOR OF UROLOGY, Chief of Department of Urology, Tufts-New England Medical Center Hospital, M.D., Board certified. Position requires a high order of scholarship and clinical and teaching abilities. Experience and demonstrated capability for research are highly desirable. Send curriculum vitae to **John F. Sullivan, M.D., Chairman, Urology Search Committee, 171 Harrison Ave., Boston, Mass. 02111.** *Tufts University and the New England Medical Center Hospital are Equal Opportunity/Affirmative Action Employers.*

TEACHING AND RESEARCH ASSISTANTSHIPS

Available September 1975 to qualified Ph.D. candidates in Biochemistry-Biophysics. Write to **Chairman, Department of Biochemistry-Biophysics, University of Hawaii, Honolulu, Hawaii 96822.** *An Equal Opportunity Employer.*

POSITIONS OPEN

The **DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS** of The Chicago Medical School, University of Health Sciences invites applications for a full time faculty position at the level of assistant professor. The candidate should be available by 1 July 1975. The individual would be expected to engage in neurophysiological or cardiovascular research and to participate in teaching physiology to medical students. Curriculum vitae and letters of recommendation should be sent to **Doctor Vincent V. Glaviano, Chairman, The Chicago Medical School, 2020 West Ogden Avenue, Chicago, Illinois 60612.** *The University of Health Sciences is an Equal Opportunity Employer with an Affirmative Action Program.*

POSTDOCTORAL RESEARCH POSITIONS

The Department of Oral Biology of the University of Connecticut School of Dental Medicine invites applications for postdoctoral (D.D.S., M.D., Ph.D.) appointments. Research fields include biochemical developmental biology, cell and tissue structure, experimental embryology and others. The N.I.D.R. institutional research fellowship supporting this program is intended to prepare scientists for research related to the etiology of craniofacial anomalies. Applications welcomed from women and minority groups. Send curriculum vitae, names of three references and description of your research interests to **J. Yaeger, Department of Oral Biology, University of Connecticut Health Center, Farmington, Conn. 06032.** *An Equal Opportunity Employer M/F.*

RESEARCH ASSOCIATE

An established program in neoplastic transformation and membrane transport has openings for individuals with backgrounds in tissue culture at the research associate level. Individuals are encouraged to develop their own areas of interest within this program. New and expanding facilities in a medical university environment. Located in a beautiful old southern city with fine cultural advantages and year-round sun and surf. Send résumé to: **Chairman, Department of Physiology, Medical University of South Carolina, Charleston, South Carolina 29401.** *An equal opportunity employer.*

UNIVERSITY OF MELBOURNE SENIOR LECTURESHIP OR LECTURESHIP IN MEDICAL MICROBIOLOGY

A vacancy exists in the Department of Microbiology for a Microbiologist whose responsibilities will include taking part in the teaching of a bacteriology unit to third year science students and teaching microbiology to medical students.

Applications are invited from medical graduates with postgraduate experience in microbiology and from science graduates in microbiology with extensive postgraduate experience in medical bacteriology.

SALARY: Senior Lecturer: Aust. \$12,643 to \$14,724. Lecturer: Aust. \$9,002 to \$12,352.

Level of appointment will depend on qualifications and experience.

Opportunities for association with public health and clinical microbiology stem from the presence in the building of the Microbiological Diagnostic Unit which carries out much of the bacteriology for the State Health Department and which is the Shigella Reference and Enteric Phage-typing centre for Australia. Teaching Hospitals and the Walter and Eliza Hall Institute are also in close proximity to the Department.

Further information is available from **Professor A. J. Pittard, Department of Microbiology, University of Melbourne, Parkville, Vic. 3052.**

Information, including details of application procedure and conditions of appointment, is available from **The Registrar, University of Melbourne, Parkville, Victoria, 3052, Australia.** Applications referring to Position No. 526014 should be addressed to The Registrar and close on 20 January 1975.

SUMMER RESEARCH

SUMMER RESEARCH SCHOLARSHIPS AT THE MARINE BIOLOGICAL LABORATORY

For the summer of 1975, funds are available to help defray laboratory fees and/or housing costs for at least five *postdoctoral* investigators (up to \$2000 each). Applications are encouraged from investigators with from 1 to 5 years of postdoctoral experience whose research requires marine organisms or the Laboratory's special facilities. For applications and further information, write the **Admissions Office, Marine Biological Laboratory, Woods Hole, Mass. 02543.**

Q: Could you plan and coordinate the design, development, and fabrication of data acquisition devices to obtain physiological signals from animals?

A: If so, we have a challenging BIO-ENGINEERING position for you in our modern Research Center (Ann Arbor). You would provide engineering services to the scientific staff, implementing animal model test apparatus and procedures. (Some experience in the design of animal test systems and/or a computer engineering background would be helpful.)

We believe the profile of an ideal candidate would include a bachelor's degree in Electrical Engineering, a master's in Bio-Engineering, and perhaps 3-5 years of related experience.

If you see a fit between your capabilities and our needs, you owe it to yourself to investigate this opportunity — simply send a resume and salary history in complete confidence.

Personnel Representative
Research Laboratories
PARKE, DAVIS & COMPANY
2800 Plymouth Road
Ann Arbor, Michigan 48106

An Equal Opportunity Employer M/F

PARKE-DAVIS



Hellma—the largest assortment of highest precision glass and quartz cells.
Standard · Flow-through · Constant-temperature
Anaerobic · Special Designs
Also available—ULTRAVIOLET LIGHT SOURCES
Deuterium Lamps · Mercury Vapor Lamps
Hollow Cathode Lamps · Power Supplies



Write for literature
Box 544
Borough Hall Station
Jamaica, New York 11424
Phone (212) 544-9534

Circle No. 244 on Readers' Service Card

CLINICAL VALIDATION COORDINATOR

Cordis needs a responsible individual with a background in physiology with some experience in the use of cardiovascular instrumentation. Knowledge of clinical chemistry and immunology desirable. Responsibilities would include the design and implementation of clinical trials relative to the validation of new medical products.

A degree in the biological/health sciences is required. Prefer an M.S. One to 3 years experience is desirable.

This unique position offers an excellent starting salary and complete company benefit program, including relocation.

If you qualify for this position, please send your resume including salary requirements to Mr. Kenneth Greig, Professional Relations Representative.

CORDIS CORPORATION

P.O. Box 370428

Miami, Fla. 33137

An Equal Opportunity
Employer M/F

cordis

ASSOCIATE DIRECTOR FOR DIABETES, ENDOCRINE, AND METABOLIC DISEASES

The Public Health Service, National Institutes of Health, National Institute of Arthritis, Metabolism, and Digestive Diseases, Bethesda, Maryland, invites applications for the position of Associate Director for Diabetes, Endocrine, and Metabolic Diseases, GS-602-15/16, salary range to \$36,000; the salary for employees at this rate is limited by 5 U.S.C. 5308 to the rate for level V of the Executive Schedule (\$36,000 as of the effective date of this salary adjustment) per annum. Duties will include planning and direction of programs of support for research and training in the diagnosis, prevention, and treatment of diabetes mellitus and related endocrine and metabolic diseases. A medical degree, and extensive experience in basic or clinical investigations in this area, mandatory. Must have held position involving program development and direction in this area, and have recognized leadership ability. Must be citizen of the United States.

Forward resume or Federal Application Form (SF-171) no later than 31 January 1975 to: Mrs. June Ardizzone, Personnel Officer, Bldg. 31, Rm. 9A-34, National Institute of Arthritis, Metabolism, and Digestive Diseases.

National Institutes of Health

Public Health Service
Bethesda, Maryland 20014

An Equal Opportunity Employer

COURSES

EMBRYOLOGY COURSE MARINE BIOLOGICAL LABORATORY

Topic of this year's course (23 June to 23 August) will be "Cell Interactions, Cell Membranes and Cell Surfaces in Development." Instructors will be Merton Bernfield (Stanford), David Epel (Scripps Institution of Oceanography), Tom Humphreys (University of Hawaii), and Jean-Paul Revel (California Institute of Technology); consultants will be Saul Roseman (Johns Hopkins), Melvin Spiegel (Dartmouth), and Theodore Stock (University of Chicago). The course, open to advanced graduate students and postdoctoral investigators, has limited funds available from the National Institutes of Health for travel, tuition, and living expenses. Additional information and application material is available from **Marine Biological Laboratory, Woods Hole, Mass. 02543**. Deadline is 1 March 1975.

At the **Marine Biological Laboratory (MBL), Woods Hole, Mass. 02543**, A **NEW NEUROBIOLOGY COURSE**, summer 1975, for first- and second-year graduate students, occasional advanced undergraduates, and a small number of senior scientists and postdoctoral fellows, 10 weeks, 23 June to 29 August, course work and projects.

To those concerned with this new course, the appeal of neurobiology is that it is a field of necessity not bounded by any single experimental approach. Our hope is that this course will demonstrate clearly for students both the diversity of experimental preparations used to study the nervous system, and that techniques as varied as single axon dissections and analyses for neurotransmitters, conventional and scanning electron microscopy, and intra- and extracellular electrical recording procedures are learnable tools that can be combined in meaningful ways in research problems. The course will consist of blocks of laboratory work, conferences and lectures, and two or three special topics symposia. The instructors are: E. A. Kravitz and A. O. W. Stretton (co-directors), synaptic chemistry and cell injection procedures; D. D. Potter, E. J. Furshpan, and P. O'Laugh (fundamentals of neurophysiology); G. D. Fischbach (tissue culture); T. S. Reese and P. Claude (neuroanatomy); and Z. W. Hall (receptors). Proposed symposia topics include simple nervous systems and genetic approaches to development and behavior.

Tuition for the course is \$850; dormitory, including board, from \$43 per week. For application blanks and further information write **MBL Admissions Office**. Applications close 1 March.

SURVEY COURSE IN IMMUNOLOGY

The Annual Survey Course in Immunology, sponsored by the American Association of Immunology, will be held at the Frederick Cancer Research Center and Hood College, Frederick, Maryland, 14 July through 25 July 1975.

The course is intended primarily for university or college instructors who need to expand their breadth of knowledge in the field of immunology. The number of participants will be limited to approximately 60, and selection will be on a competitive basis. Applicants should prepare a document containing the following information: (i) curriculum vitae, (ii) current research and teaching activities, (iii) background in immunology, and (iv) reasons for wanting to enroll in the course. The document should be submitted in quadruplicate to **Dr. M. G. Hanna, Jr., Director, of Basic Cancer Research, Frederick Cancer Research Center, P.O. Box B, Frederick, Maryland 21701**, not later than 1 March 1975. There are no formal application blanks.

The registration fee is \$125. Dormitory type facilities are available at nominal charge to the applicant. A limited number of scholarships will be awarded.

TRAINING SESSION

Two-week Session in Transmission and Scanning Electron Microscopy for Biologists, 16 to 27 June. Lectures and laboratory experience in TEM and SEM, demonstrations of freeze-fracture and freeze-etch techniques. Guest lecturers in uses of electron microscopy in specific research problems. Maximum enrollment of 12. Tuition, room and board: \$1200. For information and application form, write to: **Dr. Eve L. MacDonald, Director, Wilson College Institute for Electron Microscopy (Continuing Education Program), Chambersburg, Pa. 17201**.

FELLOWSHIPS

The American Association for the Advancement of Science (AAAS) is receiving applications for the 1975-76 term of its **Congressional Science and Engineering Fellow Program (CSFP)**. The application deadline is 31 March 1975. Information and application forms can be obtained by writing: **Dr. Richard Scribner, Director, AAAS Congressional Science Fellow Program, 1776 Massachusetts Ave., NW, Washington, D.C. 20036**.

FELLOWSHIPS

THE ROCK FELLOWSHIP OF THE NATIONAL PSORIASIS FOUNDATION

The National Psoriasis Foundation is pleased to announce that support has been provided by the Rock Foundation for a fellowship (salary stipend) in psoriasis research.

Candidates with either M.D. or Ph.D. degrees may apply by submitting a curriculum vitae and a two-page proposal for research to be carried out during the year of support. A statement concerning research support and facilities should be forwarded separately by the applicant's sponsor. Two letters of reference should also be submitted. The award will be made in the amount of \$12,500 to \$15,000, and will be made for the period of 1 September 1975 through 31 October 1976. Applications will be accepted until 15 May 1975 and the award will be announced on 1 July 1975.

Address research proposal to:

Joseph McGuire, M.D.
Department of Dermatology
Yale University
333 Cedar Street
New Haven, Conn. 06510

MASSACHUSETTS INSTITUTE OF TECHNOLOGY POSTDOCTORAL FELLOWSHIPS IN HUMANITIES AND ENGINEERING

The School of Humanities and Social Science at MIT and the School of Engineering at MIT invite applications for a limited number of postdoctoral fellowships, with appointment commencing September 1975.

Fellowships will be awarded either to scholars trained in graduate schools of engineering or science who are eager to broaden their horizons by investigating, in association with appropriate faculty of the School of Humanities and Social Science, issues of a social or humanistic character arising from the development of modern technology or to scholars educated in graduate schools of humanities or social science who are eager to explore, in association with faculty of the School of Engineering, aspects of contemporary engineering, and their consequences.

We hope that some of the fellows will be prepared by their experience at MIT to participate in the new socially oriented courses currently being introduced in engineering schools.

Inquiries and applications are invited from well-established scholars as well as from new or recent Ph.D.'s. Applicants should submit a complete curriculum vitae, a list of publications, a short summary of research in which they are engaged, and a brief description of the research activity they propose to undertake, refine, or complete while at MIT. Applications must be submitted by 28 February 1975, and should be addressed to **Director, Technology Studies, Room 20D-210, MIT, Cambridge, Mass. 02139**. Applicants will be informed by 30 March 1975 whether they are being considered for a fellowship; if so, they will be requested to provide references and a more detailed description of their proposed research. Interviews will be arranged where possible.

Stipend for the academic year 1975-76 has nominally been set at \$12,000, except in unusual circumstances. Appointment may be renewable. **MIT is an Affirmative Action Employer.**

POSTDOCTORAL RESEARCH FELLOWSHIP

A 9- or 12-month postdoctoral position is available for the 1975-76 academic year for a Research Fellow interested in connective tissue or bone research. The laboratory is well equipped for mechanical and/or histological analysis.

Present research is directed toward physiology of the periodontium. The base stipend is \$7000 or \$7500, depending on experience, plus \$500 for each dependent and an additional amount to help with travel costs to Ohio State.

Prospective candidates who are about to receive, or who have recently received academic or professional doctorates in Bio-Engineering, Dentistry, or Physiology are encouraged to reply. Please send a letter of application, résumé and transcripts by 20 January 1975 to: **David H. Noyes, Ph.D., Department of Physiology, The Ohio State University, 333 West Tenth Avenue, Columbus, Ohio 43210**. An Equal Opportunity/Affirmative Action Employer.

PROGRAM

PROFESSIONAL PROGRAM: DOCTOR OF OPTOMETRY (O.D.). Accelerated professional program of two calendar years specifically designed for the Ph.D. in physical, biological, behavioral, or applied sciences. An opportunity for an independent professional career; program starts July 1975. **Division of Special Studies, Massachusetts College of Optometry, 424 Beacon St., Boston, Mass. 02115**. Telephone: (617) 261-3430, Extension 30.

GRADUATE STUDY

GRADUATE STUDY

The Department of Biological Sciences provides graduate education toward the M.S. and Ph.D. in the areas of molecular biology and biochemistry; genetics; and cell, developmental, organismic, and population biology.

ASSISTANTSHIPS are available for qualified applicants. For details write to **Dr. Frank Hanson, Department of Biological Sciences, University of Maryland Baltimore County, Catonsville, Maryland 21228**.

ANATOMY GRADUATE PROGRAM

Medical University of South Carolina, Anatomy Department, seeks qualified candidates for Ph.D. program. Modern facilities include TEM, SEM, ciné, tissue culture, cryogenics plus many more. Faculty research interests: cell biology, development, neuroendocrinology, extracellular matrix, immunology, microcirculation. Stipends available: \$3900 per year. Contact: **Graduate Program Chairman, Department of Anatomy, Medical University of South Carolina, Charleston, S.C. 29401**.

MARKET PLACE

BIOLOGICAL REVIEWS

Availability of Back Numbers

All parts of *Biological Reviews* are available from the **Cambridge Philosophical Society, Bene't Street, Cambridge, England**, at the following prices:

Volumes 1 to 49: £8 per volume (£2.60 per part)

Volume 50: £10 per volume (£3 per part)

The following discounts are allowed:

Orders of 2 to 5 volumes, 5 percent.

Orders of 6 to 10 volumes, 10 percent.

Orders of 11 to 20 volumes, 15 percent.

Orders over 20 volumes, 25 percent.

These discounts apply until March 1975.

MULTIDISCIPLINARY SYSTEMS ANALYSIS

Environmental Assessment
Urban and Resource Planning
Land and Coastal Zone Uses
Optimization

Demonstration-Exhibit Simulation

Near East and Latin America

Reply to: **Envirodynamics**

330 Pfingsten Road
Northbrook, Ill. 60062

AQUARIUS ELECTRONICS

Pioneers in reliable biofeedback systems.



EEG, EMG, ESP
Precision instrumentation for
educators and researchers.
Custom design services also
available.
P.O. Box 96 S,
Albion, Calif. U.S.A. 95410

Circle No. 383 on Readers' Service Card

MULTIPLE FILTRATION UNIT

Pressure and/or vacuum operation. Accommodates 1 to 24 disposable filter holders. Unit: 8½" x 8½" x 4". Free Brochure.

VITATEC CORP.

P.O. Box 31108
Temple Hills, Md. 20031

Thermocouple THERMOMETERS

We make 14 thermometers, with digital or meter readout. All read in 2 secs, are extremely easy to use. Simply apply probe — read temperature.

Unbreakable probes are steel sheathed including World's Smallest Microprobe, 0.01" dia.

Models
BAT-4 BIOLOGICAL
BAT-5 CRYOGENIC
BAT-7 INDUSTRIAL
BAT-8 DIGITAL °C or °F
TH-2 CLINICAL

The Modern Way to Measure

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

Circle No. 56 on Readers' Service Card

Five compatible Digital lab systems that start at under \$11,500

We spent a lot of time in a lot of labs looking for a practical approach to your system needs. And now we've got it. The DECLAB 11/10, a family of five compatible, cost-effective computer systems starting at under \$11,500.

These compact systems, based on the expandable PDP-11 16-bit computer, offer a wide range of peripherals and real-time and program development software.

In the basic configuration, DECLAB 11/10 costs \$11,495 and

includes a processor with 16K words of memory, the new low-cost AR11 16-channel analog to digital converter with a programmable real-time clock and display controller, plus hard copy teleprinter with paper tape software.

If you need more, there's Digital's Lab Applications Package of ready-to-assemble software tools. You have your choice of the AR11 or LPS11 analog subsystem (expandable up to 64 channels), with options that include mass storage, graphic displays, or whatever peripherals you need. Each system is complete and ready-to-use, and offers you the quality and performance you'd expect from the leading manufacturer of minicomputer systems.

For non-profit organizations, a discount of \$1,000 or \$3,000 is available depending on the model.

For more information contact your local Digital office. Or call or write Laboratory Data Products Group; Digital Equipment Corporation, Marlboro, Mass. 01752. (617) 481-9511, Ext. 6947. European headquarters: 81 route de l'Aire, 1211 Geneva 26. Tel: 42 79 50. Digital Equipment of Canada Ltd., P.O. Box 11500, Ottawa, Ontario K2H 8K8. (613) 592-5111.

digital

Circle No. 303 on Readers' Service Card





The AO MICROSTAR[®] Microscope has a new high intensity illuminator with a 20 watt tungsten Halogen lamp that gives more light and longer lamp life. High color temperature offers greater operating efficiency and truer color rendition particularly for photomicrography. Further, the lamp is self-cleaning to assure consistent brightness throughout the exceptionally longer life. The lamp control is solid state and continuously variable to give you the exact illumination intensity desired. A transformer is neatly fitted inside

the microscope base, out of the way.

Of course there is more. An infinity corrected optical system, focusable nosepiece, vibration-free stage that locks to the stand and dual viewing models—all pioneered by AO to give you the finest laboratory microscope available today.

Ask your authorized AO dealer or sales representative for a demonstration. In the meantime send for detailed brochure.

Circle No. 372 on Readers' Service Card

American Optical, Scientific Instrument Division, Eggert Rd., Buffalo, N.Y. 14215

AOTM
American
Optical