

Personnel Placement

RATE CHANGE Effective 1 Jan. 1970

POSITIONS WANTED: 40¢ per word, minimum charge \$10. Use of Box Number counts as 10 additional words. Payment in advance is required. These rates apply to individuals only. Personnel agencies and companies take display rate for all advertising.

POSITIONS OPEN: \$7 per column line, if publisher's type is used (12 lines = 1 inch). Minimum ad is 12 lines or \$84. All ads using larger than 6 point type will be billed as display ads at \$100 per inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Ads over 1 inch will be billed to the nearest half inch. Payment in advance is required except where satisfactory credit has been established.

COPY for ads must reach SCIENCE 4 weeks before issue date (Friday of every week). Send copy for Personnel Placement advertising to:

SCIENCE, Room 211
1515 Massachusetts Ave., NW
Washington, D.C. 20005

Replies to blind ads should be addressed as follows:

Box (give number)
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Washington, D.C. 20005

POSITIONS WANTED

Contemplating a new laboratory: Experienced **Architect** concluding university project interested assist scientific group achieve maximum utility, adaptability, simplicity, amenity, allowing for unpredictable research requirements, individual differences. Prefer join staff, lead planning, inception to completion. P. W. Faulconer, Triumph Project, University of British Columbia, Vancouver, Canada.

Biochemist, Ph.D. with strong microbiological background. Publications in enzymology, microbial genetics, proteins, marine biochemistry. Desires teaching and/or research position in New York/New Jersey area. Box 25, SCIENCE. X

Biochemist, Ph.D. Some medical school teaching plus 12 years of research: neurochemistry, nutrition, reproductive biology, behavioral sciences. Academic opportunity preferred. Box 26, SCIENCE. X

Biochemist, Ph.D., accredited; National Registry in Clinical Chemistry. Several years of experience as Principal Investigator in a multidisciplinary research program, teaching of general chemistry and medical biochemistry (enzymology, neurochemistry). Seeking academic or industrial position. Box 27, SCIENCE. Z

Biologist, Ph.D. 1967. Anatomy/physiology, histology, morphological hematology teaching experience. Prefers, enjoys teaching. Fall 1970. Box 28, SCIENCE. X

Cell Biologist—Electron Microscopist, transmission and scanning microscopy, microprobe. Ph.D. Active basic research program. Numerous publications. Desires senior academic teaching/research position—histology, embryology, cell physiology. Box 29, SCIENCE. X

Challenging and Creative Position sought by Ph.D. with 20 years' experience in research and teaching. Background: Genetics and experimental design. Box 30, SCIENCE. X

Comparative Morphologist desires senior appointment in United States or Canada to teach human or comparative histology, and/or pathology of laboratory animals. Own research established. Part-time administrative functions welcome. Box 31, SCIENCE. 2/20

POSITIONS WANTED

Engineer Ph.D. 1967. Two years' postdoctoral experience. Background in theoretical incompressible fluid mechanics and turbulence. Seeks research and/or teaching position. University, research institute preferred. Box 32, SCIENCE.

Environmental Biologist—Ph.D., 8 years' teaching/research mycology, phytopathology; 9 years' industrial water pollution ecology and control. Publications, patents. Wants teaching/some research resource conservation, environmental pollution, general biology subjects, Pacific Northwest. Box 33, SCIENCE. X

Environmental Earth Scientist, Ph.D., 35, desires academic/industrial position where natural resource need can be reconciled with resource conservation. Diversified experience and education; publications. Box 34, SCIENCE. X

Executive Editor of Journal, Ph.D., extensive research experience (biochemistry, immunology, cell biology) plus thorough training editorial policy, manuscript editing, journal production and management, information science. Available June 1970. Full-time, or combination with research or teaching. Box 50, SCIENCE. X

Geneticist, Ph.D. Ten years' postdoctoral research, some university teaching experience. Desires teaching position with opportunity to continue modest research program in mutation, gene structure. Publications. Box 35, SCIENCE. X

German Veterinary Surgeon, (Dr. Med. Vet., female, single, 28), having done scientific work concerning parasitological problems, seeks soonest new post as scientific researcher in America. Box 36, SCIENCE. X

Immunologist, Ph.D., age 29. Five years' teaching/research (clinical/experimental) experience, publications. Desires teaching-research appointment, university-government. Box 37, SCIENCE. X

Microbiologist Ph.D. 1966. Postdoctoral training in pathogenesis of urinary tract infections. Publications. Desires research/teaching position. Teaching experience. Box 38, SCIENCE. X

Microbiologist, Ph.D. Clinical and teaching experience. Research experience in microbial biochemistry. Publications. Seeks academic and/or research position. Box 39, SCIENCE. X

Microbiologist, Ph.D., publications on taxonomy, proteinase biosynthetic control mechanisms of bacteria. Teaching experience. Seeks research and/or teaching position in New York/New Jersey area. Box 40, SCIENCE. X

Microbiologist, Ph.D., 9 years of academic experience, postdoctorate. Areas: microbiology, biochemistry, physiology, general biology. Desires teaching/research position. Publications. West, Southeast coasts preferred. Available September 1970. Box 41, SCIENCE. X

Microbiologist, Ph.D., 20 years of broad experience in teaching, research, and administration. Desires responsible position in New England. Box 42, SCIENCE. X

Microbiologist, Ph.D. Experience in research in microbial metabolism, in teaching medical microbiology and some in clinical bacteriology. Box 43, SCIENCE. X

Microbiology-Hygiene, D.Sc. with rich experience in teaching, research, leading medical laboratory positions, numerous publications and presented papers; will relocate. Box 44, SCIENCE. X

Nutritional Biochemist, Ph.D., associate professor at eastern university, plus 14 years' experience in pharmaceutical industry. Background: research and development, administration, teaching. Publications, patents. Seeks academic or industrial position. Call 201-549-9283 after 8:00 p.m., or write Box 45, SCIENCE. X

Reproductive Physiologist, Ph.D., 42. Steroid analysis, new contraceptive compounds. Publications. Teaching: various levels physiology, neuroendocrinology, histology, general biology. Desires position, Northeast, West, Great Lakes. Box 46, SCIENCE. X

Senior NIH Research Grants Administrator with academic affiliation during past 5 years providing current background in cell biology and anatomy will consider academic appointment combining administration and some teaching. Age 55. Prefer Southwest. Box 47, SCIENCE. X

Summer Teaching. Comparative anatomy, embryology, ornithology, evolution. Ph.D., Phi Beta Kappa, author, 20 years' teaching-research experience. Box 48, SCIENCE. X

S&S Ion Exchange Celluloses

Ion Exchange Celluloses produce separations that far exceed the results of using ion exchange resins, chromatography, electrochromatography or electrophoresis alone. S&S offers five kinds of ion exchangers in fiber and powder form, for use in column and TLC.

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DEAE (diethylaminoethyl). Separation and purification of proteins, peptides, enzymes, hormones. Capacity meq/g 0.9 ± 0.1 .

TEAE (ethyl bromide). Separation and purification of acidic proteins and folic acid derivatives. Capacity meq/g 0.9 ± 0.1 .

ECTEOLA (epichlorohydrin triethanolamine). Separation and purification of viruses. Capacity meq/g 0.3 ± 0.1 .

PEI (polyethyleneimine) and **QAE** (quaternized Ion-Exchanger) available on special order.

Cation Exchangers:

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P (phosphate). Bifunctional. Contains strongly acidic and weakly acidic groups. Capacity meq/g 0.9 ± 0.1 .



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GOVERNMENT REGULATIONS Biological Products

Blood derivatives and new biological products are the wave of the future—one of the fastest growing segments of the health care market. If you have a B.S. in biology (or one of the sciences) plus experience in blood banks, clinical laboratories or regulatory affairs, you could advance in this vital industry with ABBOTT in the field.

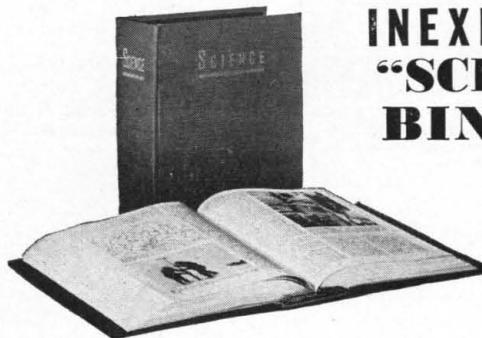
We seek a specialist in regulatory affairs to assure compliance and assist in the preparation and submission of documents on biological products to the governments. This person will have a keen awareness of federal laws regulating new drug applications, labeling and advertising.

The department is small, but the responsibilities and rewards are great! Backed by an impressive starting salary plus full benefits including profit sharing. We are located in a suburban area within an hour's commuting distance to Chicago or Milwaukee. Rush résumé in confidence to:

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For orders outside the United States add 50¢ per binder. Imprint: name of owner, add 85¢ per binder; year of issues, for example, 1969-2, add 60¢ per binder.

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POSITIONS OPEN

BIO-ORGANIC CHEMIST

Expanding interdisciplinary research programs have created a unique position for an organic chemist with demonstrated interest in biochemistry.

This position will provide ample opportunity for independent and creative work. At the same time you will help determine the orientation of integrated research by maintaining close liaison with physiologists and synthetic organic chemists.

Selected candidate must have Ph.D. in organic chemistry and a minimum of one to two years postdoctoral experience in Biochemistry. Demonstrated interest in aspects of proteins and/or porphyrin chemistry is highly desirable.

Excellent salary and benefit programs, including relocation expenses. Reply in confidence to:

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MEMORIAL UNIVERSITY OF NEWFOUNDLAND St. John's, Newfoundland, Canada DEPARTMENT OF BIOCHEMISTRY

Applications are invited for two positions, in the following fields, on the academic staff of the Department of Biochemistry.

1) Comparative Biochemistry, with interest in marine life

2) Biochemistry of Steroids and Hormones
Appointments will be at the Associate or Assistant Professor level, depending on qualifications, and will be effective 1 September 1970. The position requires teaching undergraduate and graduate students and the development of an active research programme.

Send résumé and names of three referees to **Dr. L. A. W. Feltham, Head, Department of Biochemistry, Memorial University of Newfoundland, St. John's, Newfoundland, Canada.**

POSITIONS OPEN

UNIVERSITY OF AKRON DEPARTMENT OF BIOLOGY

Applications are invited for the following positions:
AQUATIC BIOLOGIST, with interests in pollution studies and ability to coordinate research programs.

IMMUNOLOGIST/PATHOGENIC BACTERIOLOGIST

VERTEBRATE PHYSIOLOGIST

All of these positions require a Ph.D. and will involve varying combinations of graduate/undergraduate teaching and research. Preference will be given to candidates with established research records. Résumé and names of three referees should be sent to **Dr. Dale Jackson, Department of Biology, University of Akron, Akron, Ohio 44304.**

The University of Saskatchewan, Regina Campus, invites applications for an academic appointment in Physics as of 1 July 1970. Field of specialization:

BIOPHYSICS

Ph.D. required and postdoctoral experience an asset. Duties to consist of teaching at undergraduate and graduate levels, and research.

1969-70 Salary Range:

Professor	\$18,050
Associate Professor	14,000-18,025
Assistant Professor	10,600-13,900

Rank and salary dependent on training and experience.

Send complete curriculum vitae, small photograph, and names of three or four references, or requests for further information, to:

Dr. G. Papini, Chairman
Physics Department
University of Saskatchewan
Regina Campus, Regina, Sask., Canada

COMPARATIVE PATHOLOGIST

G. D. Searle & Co., a recognized leader in the rapidly expanding medical/pharmaceutical industry with strong emphasis on research, is seeking an experienced Comparative Pathologist to perform pre-clinical drug safety (toxicity) studies in the Division of Biological Research.

This is a Doctorate-level position. Two or more years of prior full-time employment performing lab animal anatomical pathology is required.

For consideration and further information, please write:

R. G. McConnell, Ph.D.

Head, Dept. of Pathology-Toxicology

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PHYSICAL SCIENCES LIBRARIAN to organize and supervise collection and services for 200,000-volume capacity Physical Sciences Library due to open Fall 1970. Minimum 5 years' professional experience in academic library or equivalent, plus graduate work in physical science or engineering. Starting salary \$10,600-\$14,600 + depending on qualifications and experience. For application write **Mrs. Katherine Emerson, Assistant to Director, University of Massachusetts Library, Amherst, Mass. 01002.**

LIFE SCIENCES

This Division of a leading U.S. Corporation is engaged in major expansion of Research and Development programs in the area of Life Sciences. To carry on these programs, we have a number of key openings for talented professionals. We can offer the opportunity to make a real mark on one of the most important areas of benefit to humanity, for now and for the future, as well as a full range of company benefits and a pleasant East Coast suburban location.

PHYSIOLOGIST

M.A./M.S. or Ph.D. Emphasis on human or general mammalian physiology. Working knowledge of physiological instrumentation and courses on research in cellular physiological development.

PHYSICIANS

M.D. with minimum of two years' research and/or development experience in physiology.

BIOCHEMIST

B.A./B.S. - M.A./M.S. or Ph.D. Working knowledge in instrumentation and strong background in biology desirable.

MICROBIOLOGIST

B.A./B.S. - M.A./M.S. or Ph.D. Experience in one or more of the following areas desirable:

- Determinative microbiology/
- microbial physiology
- Tissue culture
- Virology
- Mycology

EXPERIMENTAL PSYCHOLOGIST

B.A./B.S. - M.A./M.S. or Ph.D. Interest and experience in applied research in the behavioral sciences.

HUMAN FACTORS SPECIALIST

B.A./B.S. - M.A./M.S. or Ph.D. Minimum one year experience in human factors application.

TECHNICIANS

Two years of cellular research courses —biology and chemistry required. Medical technologist registry desirable. Please submit resumes to:

Box 53, SCIENCE

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POSITIONS OPEN

PATHOLOGIST

HAZLETON LABORATORIES, specializing in the life and environmental sciences, is seeking an additional Pathologist to evaluate, interpret, and report pathologic changes in laboratory animals from a variety of toxicologic, oncologic and related research projects. Concentration in areas such as histochemistry, teratology, electron microscopy and clinical pathology is encouraged. Opportunity to consult and collaborate with multidisciplinary technical staff and with associated industries and government agencies. Our laboratories, located in suburban Washington, D.C., offer well-equipped research facilities with excellent potential for publications and scientific meeting attendance. Outstanding benefits program includes stock savings and dental care plans. If you are a DVM, with or without an advanced degree, and ACVP eligible or certified, please send your résumé to Mr. Michael J. Mackert.

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PROTEIN STRUCTURE

New or recent Ph.D. Permanent position on hard money.

Box 51, SCIENCE

Applications are invited for teaching/research position in a private university in the Midwest for (1) **HISTOCHEMIST** with experience in electron microscopy; (2) **ENVIRONMENTAL BIOLOGIST**; (3) **MAMMALIAN PHYSIOLOGIST**. Rank and salary depend on qualifications and experience. Appointment September 1970.

Box 52, SCIENCE.

ELEMENTARY LABORATORY SUPERVISOR

The Physics Department of the University of Nebraska is seeking a person to be responsible for maintaining, updating and acquiring equipment for the elementary laboratories and for participating in the development of new experiments. Master's degree or equivalent. Salary depending on qualifications. Send résumé to: **Prof. M. E. Rudd, Physics Department, University of Nebraska, Lincoln, Nebr. 68508.**

MEDICAL MICROBIOLOGIST

Ph.D., recent postdoctoral experience, publications, must have references supporting teaching ability. Modern department of Biological Sciences in small, rural university in Northern Michigan. For information write:

**Dr. John V. Slater, Head
Department of Biological Sciences
Michigan Technological University
Houghton, Michigan 49931**

ANIMAL BEHAVIORIST- NEUROBEHAVIORIST

We invite applications for a position as an animal behaviorist-neurobehaviorist in the Zoology Department at levels from Assistant to full Professor. Duties include teaching an upper division course in animal behavior and developing a new course in neurobehavior. Some preference given to someone working with fish, as some facilities are available and a Bureau of Marine Sciences has recently been created on the campus to aid in development of marine teaching and research facilities. However, ALL qualified applicants with skills to teach animal behavior and neurobehavior will be seriously considered. Interested persons should send their curriculum vitae and names of three referees to **Prof. Richard Etheridge, Chairman, Zoology Department, College of Sciences, San Diego State College, San Diego, California 92115.**

POSITIONS OPEN

Heinrich-Pette-Institute

for Experimental Virology and Immunology
at the University of Hamburg
invites—after the completion of an extension-building—applications for the positions of

DEPARTMENT HEADS

Applicants must possess sufficient experience in the field of experimental virology, especially of human pathogenic viruses, or in the field of immunobiology or immunochemistry.

The Institute is organized according to the department system. The position as department head offers seat and vote on the Institute board, which plans and arranges the execution of research programmes, and which also participates in the executive management of the Institute.

Applications with the usual documents and statement of the earliest possible date upon which appointment could be assumed should be addressed to

**Executive Management of the
Heinrich-Pette-Institute
c/o Professor Dr. O. Drees,
Martinistrasse 52
(Universitätskrankenhaus Eppendorf)
2 Hamburg 20 / GERMANY**

GRADUATE STUDY

PREDOCTORAL FELLOWSHIPS IN ENVIRONMENTAL TOXICOLOGY

Positions in a graduate studies program which emphasizes basic biological and chemical principles underlying various aspects of toxicology, including drug metabolism, carcinogenesis, trace metals, teratology and safety evaluation. Modern facilities in an expanding medical research center.

Prerequisites: Recent bachelor's degree in biology, chemistry or physics.

Stipend: Fellowships, \$2400 and up, plus tuition, fees and dependency allowance.

Contact: **Dr. Carl C. Smith, Program Director, Dept. of Environmental Health, Univ. of Cincinnati, College of Medicine, Eden & Bethesda, Avenues, Cincinnati, Ohio 45219**

PREDOCTORAL FELLOWSHIPS IN ANATOMY

Training leads to Ph.D. Research training in neurobiology, neurochemistry, immunology, reproductive physiology, aging and hematology. Stipends begin at \$2400 plus \$500 per dependent. Must be U.S. citizen or have resident visa. Contact **Dr. James B. Hamilton, Chairman, Department of Anatomy, Downstate Medical Center, State University of New York, 450 Clarkson Avenue, Brooklyn, New York 11203.**

Openings for postdoctoral traineeships (electron microscopy, histochemistry) starting 1 July 1970, Department of Dermatology, **Tufts-New England Medical Center, Boston, Mass.** Contact **Dr. Milton R. Okun, Dermatology Laboratory, Rehab. 4, Boston Dispensary, 185 Harrison Ave., Boston, Mass. 02111.**

RESEARCH TRAINEESHIP IN INVESTIGATIVE ENDOCRINOLOGY. Two-year program with special emphasis on development and application of radioimmunoassay procedures; current areas of research include physiology and immunology of insulin, growth hormone, oxytocin, vasopressin and calcitonin; funded by National Institutes of Health; one position available 1 July 1970 to M.D. or Ph.D., American citizen or foreign national with permanent residency status. Write **Seymour M. Glick, M.D., Maimonides Medical Center, Coney Island Hospital, Ocean and Shore Parkways, Brooklyn, New York 11235.**

Application for **ADVANCED STUDIES IN A DIVERSIFIED, CREATIVE BIOCHEMISTRY PROGRAM**, including clinical biochemistry, leading to a Ph.D. are now being considered for September 1970. Tuition-free predoctoral fellowships are available.

**Chairman, Admissions Committee
Biochemistry Department
State University of New York at Buffalo
Buffalo, New York 14214**

COURSES

BOSTON UNIVERSITY MARINE PROGRAM at the Marine Biological Laboratory, Woods Hole, Mass., 21 September–12 December 1970. Graduate courses in Marine Invertebrate Zoology and Marine Ecology. Seminar and research. Applications from qualified graduate students invited. For information write: **Dr. Arthur G. Humes, Acting Director of BUMP, Biological Science Center, 2 Cummington St., Boston, Mass. 02215.**


NATO ADVANCED STUDY INSTITUTE ON CELLULAR DIFFERENTIATION AND REGULATION OF THE IMMUNE RESPONSE

co-sponsored by the Medical Research Council of Canada and the Faculty of Medicine, University of Manitoba, will be held at Minaki Lodge, Lake of the Woods, 145 miles east of Winnipeg, Manitoba, during 5–17 July 1970. The daily program to be given by an international faculty of 17 investigators will consist of three lectures in the morning and two to three lectures in the evening; afternoons and weekend devoted to informal discussions, study in reference library or recreation. Accommodation and all meals at \$16 per diem; some quarters adequate for families will be available. The fee for the course will be \$90 for graduate students and postdoctoral fellows, \$200 for established investigators. A number of substantial travel grants, primarily intended for deserving young scientists from Europe, and some stipends to cover part of cost of accommodation will be awarded. Application forms and additional information obtainable from **Prof. A. Sehon, Director of the Institute, Department of Immunology, Faculty of Medicine, University of Manitoba, Winnipeg 3, Manitoba, Canada.**


Attendance will be limited to 100 participants. Deadline for receipt of applications: 15 April 1970.

The Market Place

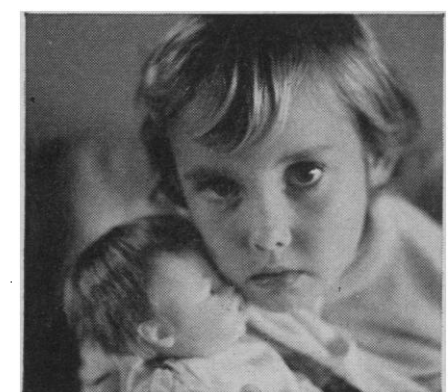
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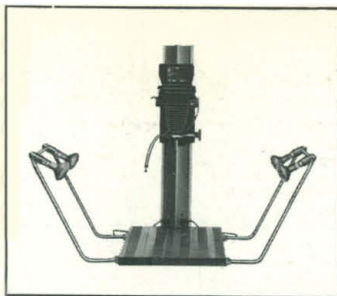
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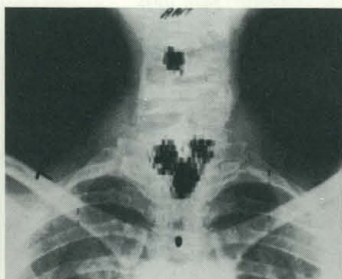
The Polaroid MP-3 Multipurpose Land Camera. It's so versatile, Polaroid still hasn't found out all it can do.

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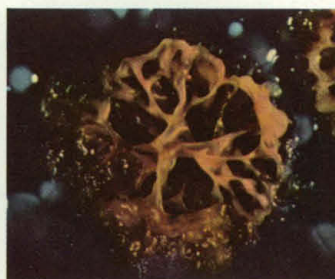
We've shown only a few of its uses. But for more information, or a demonstration, write: Polaroid Corporation, Industrial Marketing, Dept. 26-162 Cambridge, Mass. 02139. If you find a brand new use for the MP-3, we won't be a bit surprised.



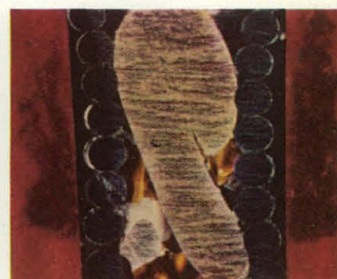
Quartz crystal on pyrite.
Polacolor Type 58 film.



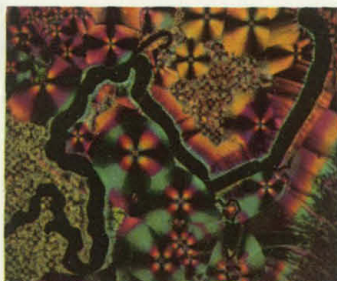
Copy of X-ray with isotope scan overlay.
Type 107, 3000-speed film.



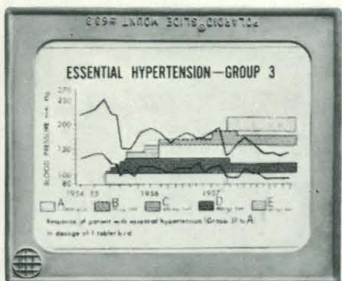
Macro photograph, bacteria culture.
Polacolor Type 108 film.



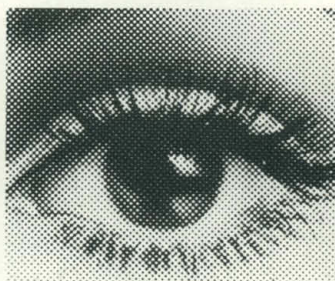
Macro photograph section of wire nut.
Polacolor Type 58 film.



Photomicrograph, crystals under polarized light.
Polacolor Type 58 film.



Slide for presentation, high contrast.
Type 146L projection film.



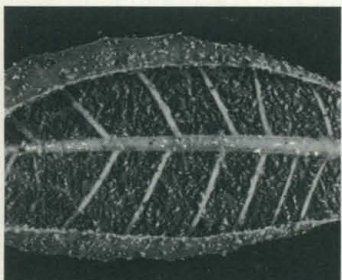
Instant screened print for printing reproduction.
Type 51 high contrast film.



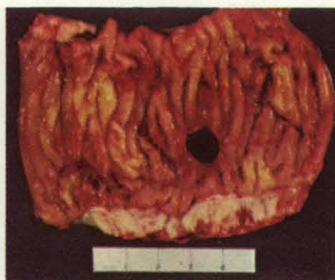
Coins, circa 100 A.D., catalog illustration.
Polacolor Type 108 film.



Sea horse specimen for collection record.
Polacolor Type 58 film.



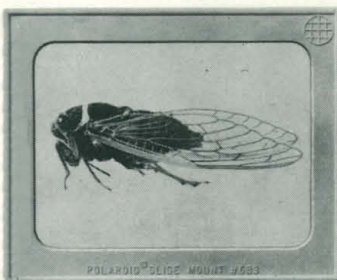
Tobacco bud leaf showing aphid damage.
Type 107, 3000-speed film.



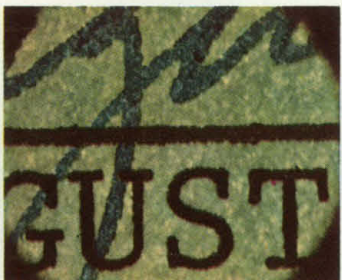
Perforated ulcer of the stomach.
Polacolor Type 58 film.



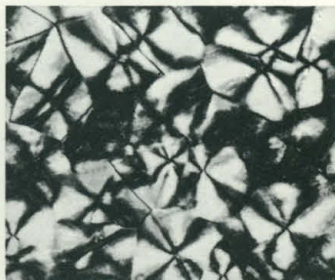
Tensile fracture of copper wire (positive).
Type 55 Positive/Negative film.



Biology study slide, continuous tone.
Type 46L projection film.



Handwriting study for legal investigation.
Polacolor Type 58 film.



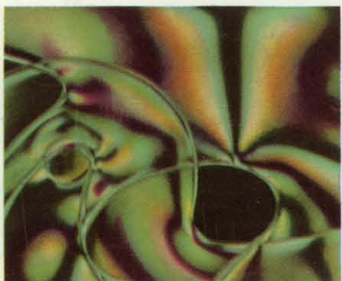
Photomicrograph, structure of nylon fiber.
Type 47, 3000-speed film.



Macro photograph section of battery grid.
Polacolor Type 58 film.



Copy of fingerprint record (negative).
Type 55 Positive/Negative film.



Stress analysis under polarized light.
Polacolor Type 58 film.



Diode fractures, for QC report.
Polacolor Type 108 film.

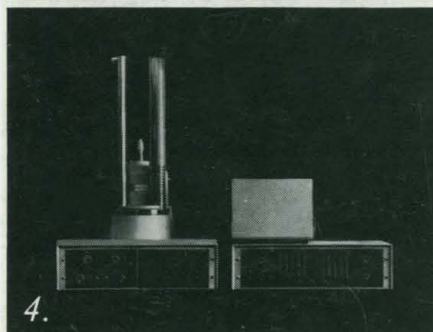
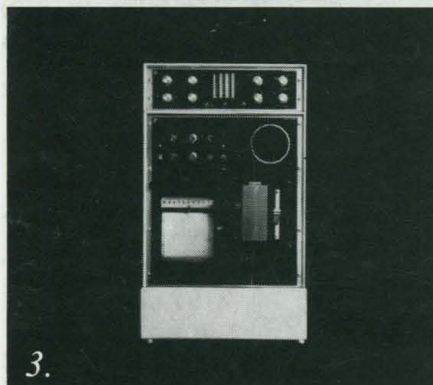
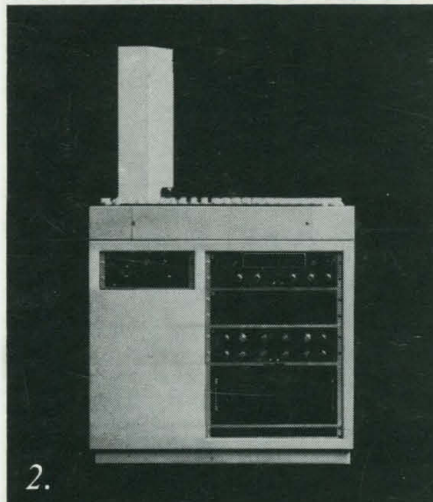
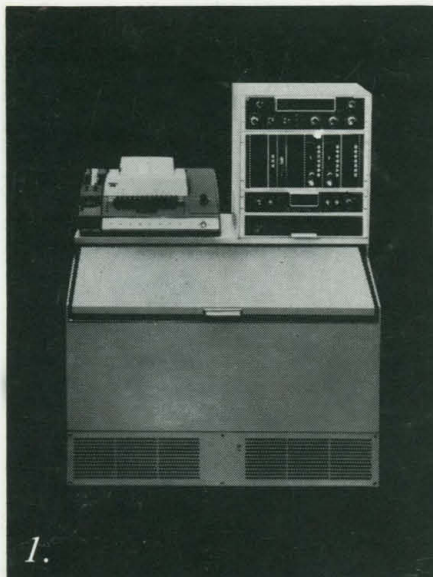


Macro photograph, insect mouth structure.
Polacolor Type 58 film.

A point of view on

WHAT COUNTS IN NUCLEAR HARDWARE

*Sometimes it pays to
return to the basics. Here
are some fundamental
guidelines you may find
helpful in selecting what's
right for your work.*



In liquid scintillation counting, it's optimized conditions for *every* sample that count. Plus simplicity. That's our top-of-the-line, 300-sample Mark II™ Liquid Scintillation System for you. Accommodates up to 12 different optimized counting programs and automatically picks the right one every time. Auto-calibration, too. And a figure of merit that permits sample counting at activities lower than any other system.

In gamma counting, it's low, constant background that counts. Together with positive, gentle sample handling. Our Series 4200 Automatic Systems protect your samples from background. And assure you of faultless sample handling with foolproof simplicity. Single or dual channel, 2-inch or 3-inch detector crystal, CPM or DPM, lister or gamma computer. You specify the readout. We'll deliver it—reliably.

In paper radiochromatography, it's being *fast* between radioactive peaks that counts. Our Actigraph® III Systems are just that. They speed up the strip between peaks and automatically print out peak counts. Result: high-speed, quantitative data. Choose digital integrator, DISC® Integrator, or analog readout. Thin-layer-plate scanning, too.

In planchet systems, it's simplicity that counts. Our planchet systems are simple and easy to use—virtually never break down. Systems for 1¼-inch or 2-inch planchets. For standard or low-background counting.

In your work, it's reliable hardware that counts—no matter what the sample. Let us demonstrate our systems' ultra-reliability. And tell you about our unmatched service organization that keeps them that way. Call your Nuclear-Chicago sales engineer or write directly to us.

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1. Mark II Liquid Scintillation Systems. 2. Gamma Counting Systems. 3. Actigraph III Paper Radiochromatography Systems. 4. Planchet Systems.



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