SCIENCE

9 January 1970

Vol. 167, No. 3915

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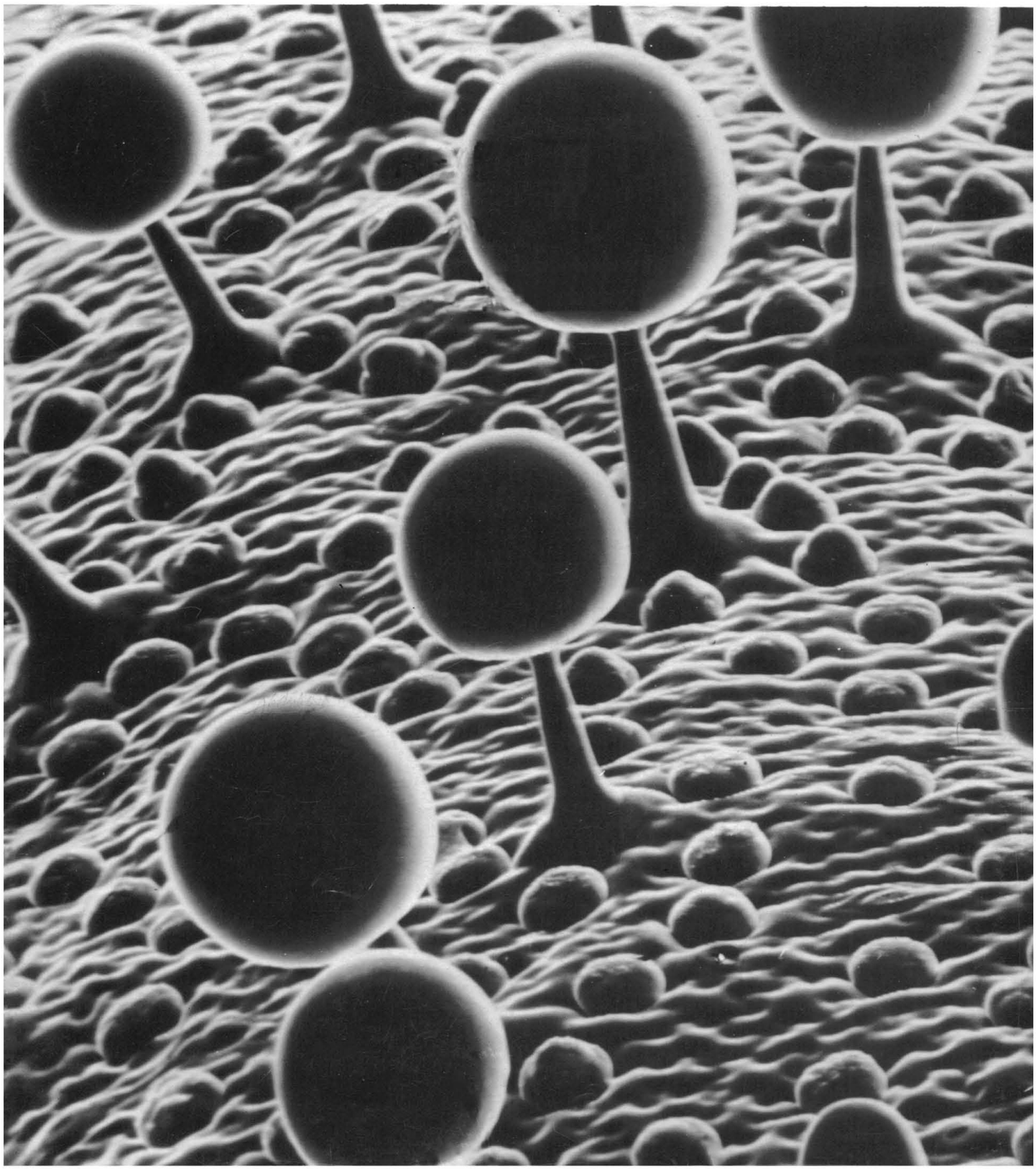

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COVER

Leaf surface of *Pinguicula grandiflora* immediately after introduction into the vacuum of the microscope. Globules of mucilage are still perfectly retained over the head cells of the stalked capturing glands (× 400). See page 172. [Y. Heslop-Harrison, University of Wisconsin]

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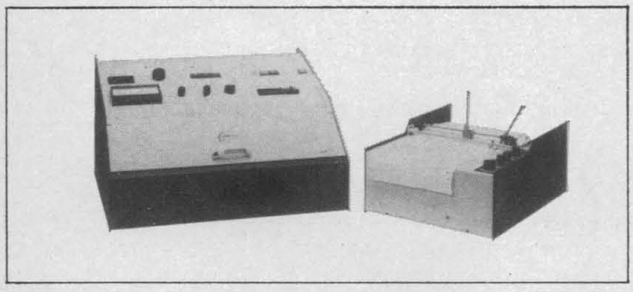

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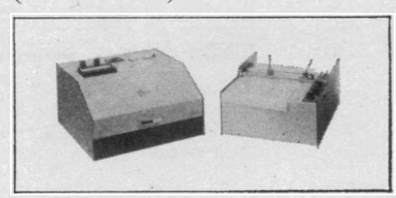

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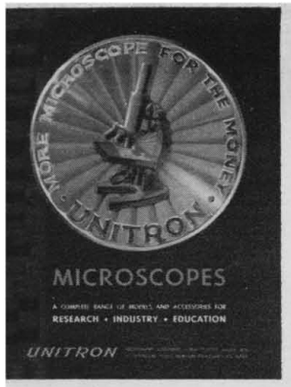

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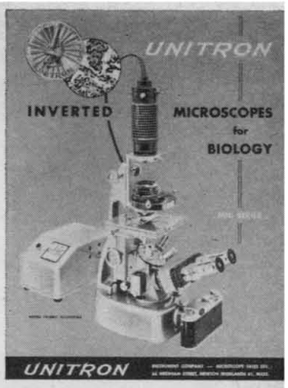

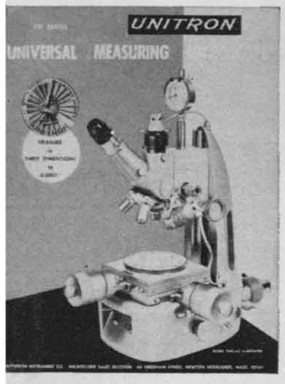

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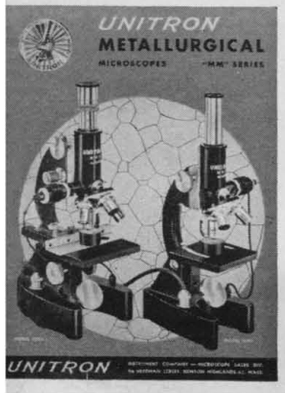

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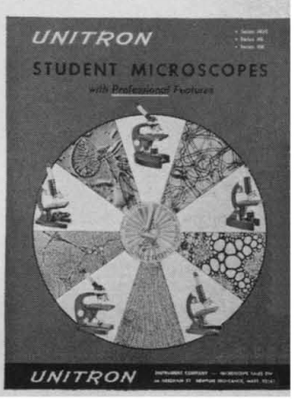

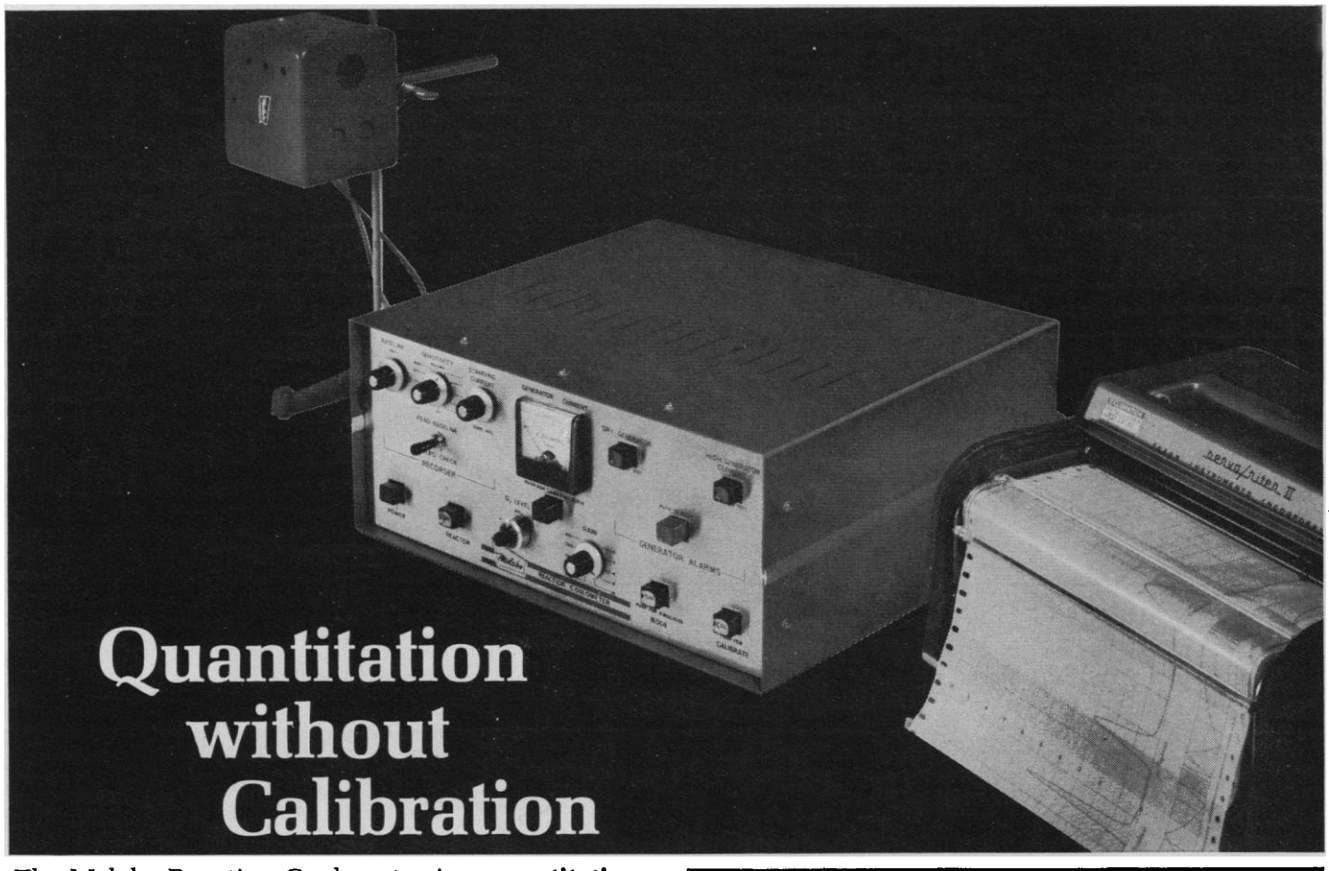

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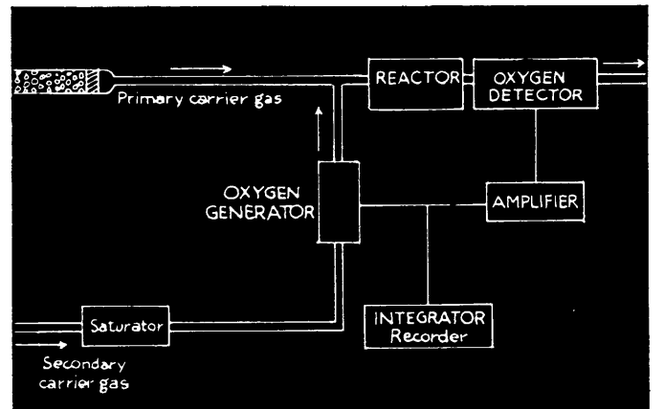
[1]Burton, G., Littlewood, A.B., and Wiseman, W. A., "A Sensitive Quantitative Detector for Gas Chromatography using Electrochemical Measurement of Oxygen." **Gas Chromatography 1966,** *Proceedings of the 6th Int'l. Symposium on Gas Chromatography and Associated Techniques,* Rome, Sept., 1966, pp 193-207, Institute of Petroleum, London, 1967, Elsevier, Amsterdam (agent).



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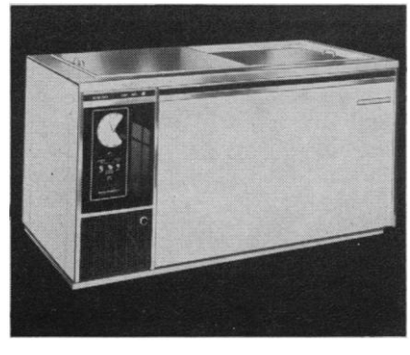

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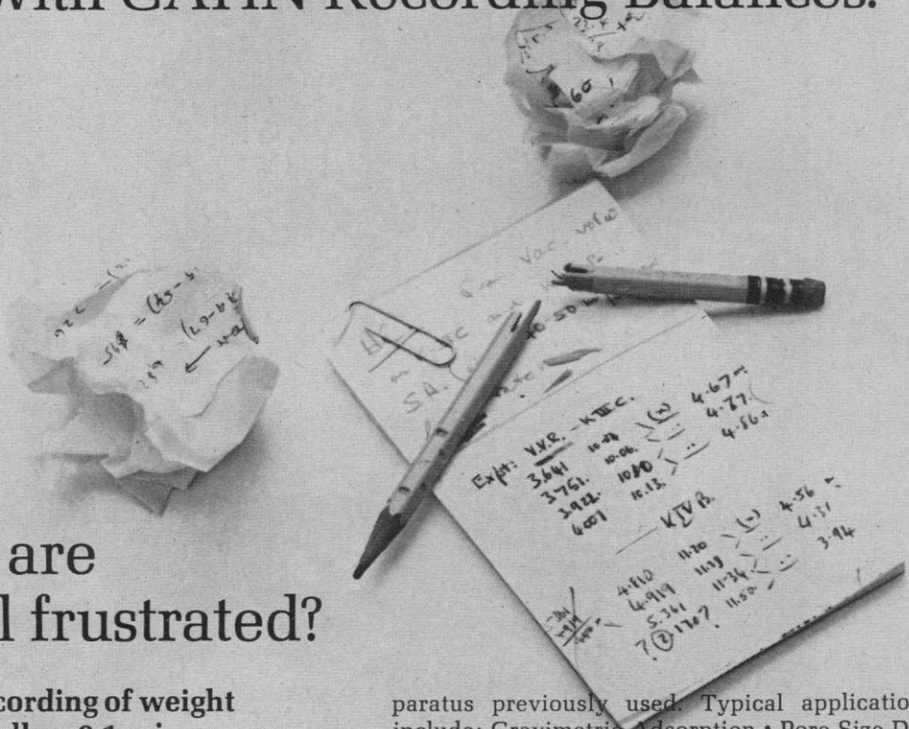

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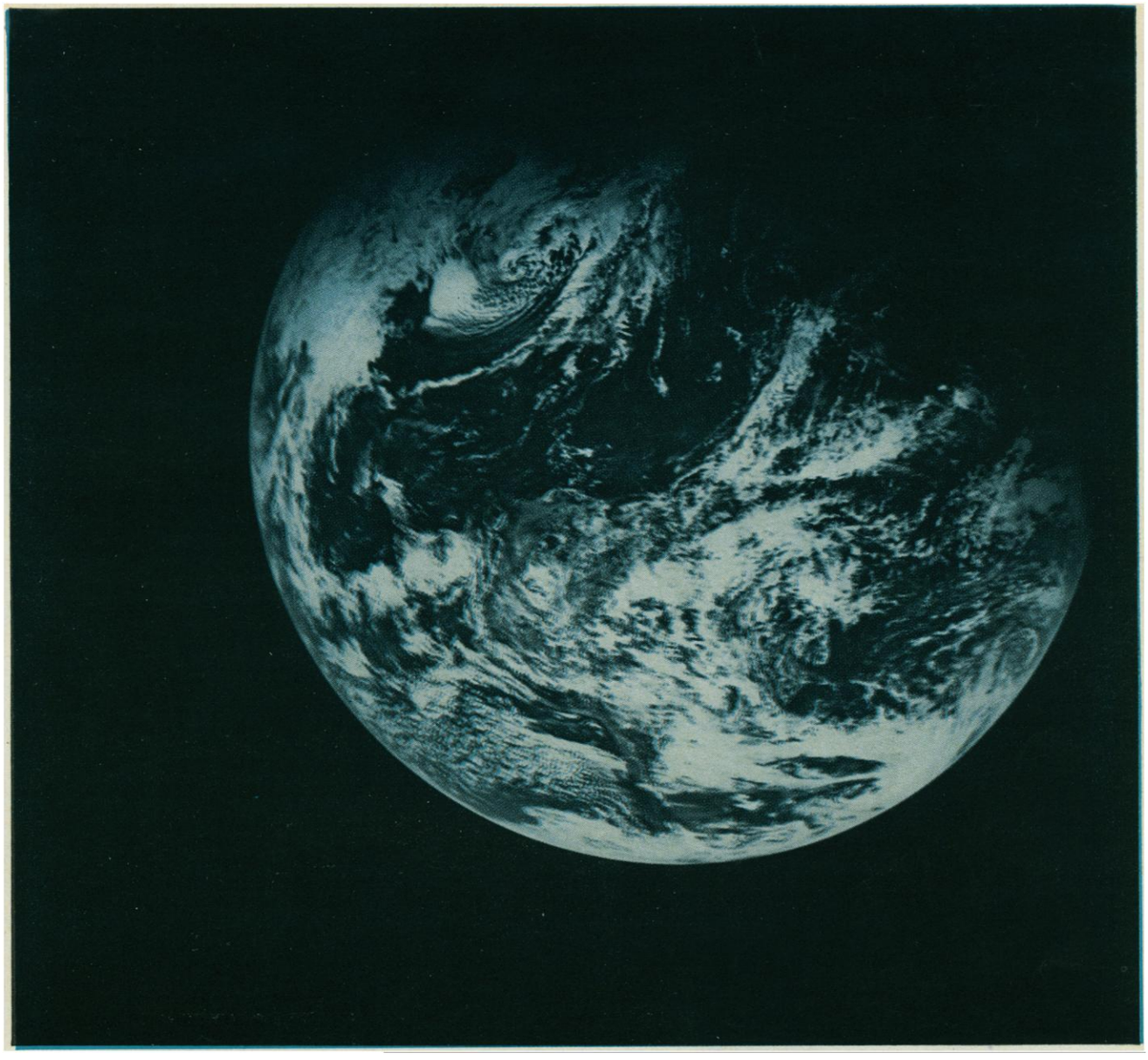

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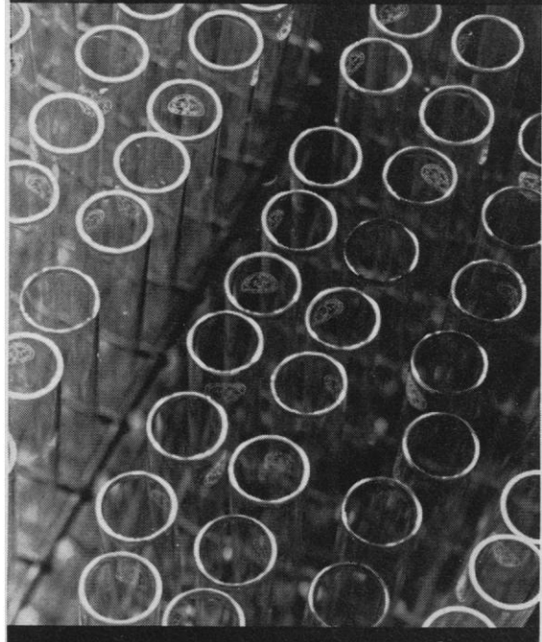

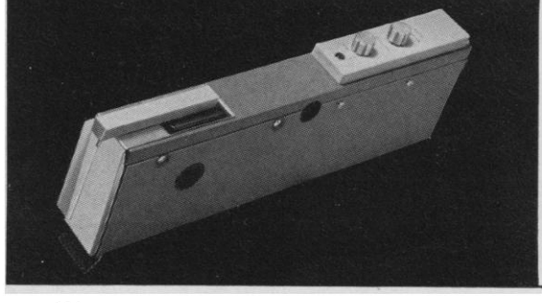

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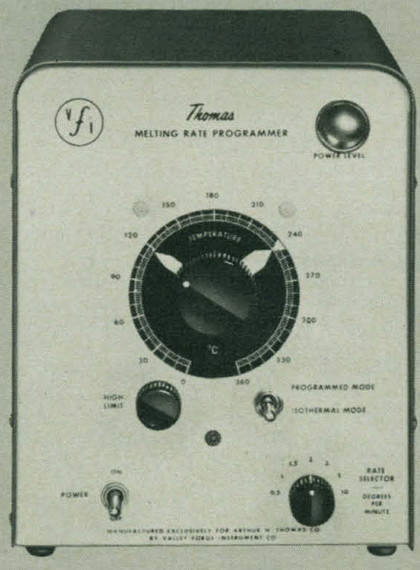

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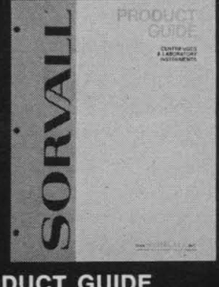

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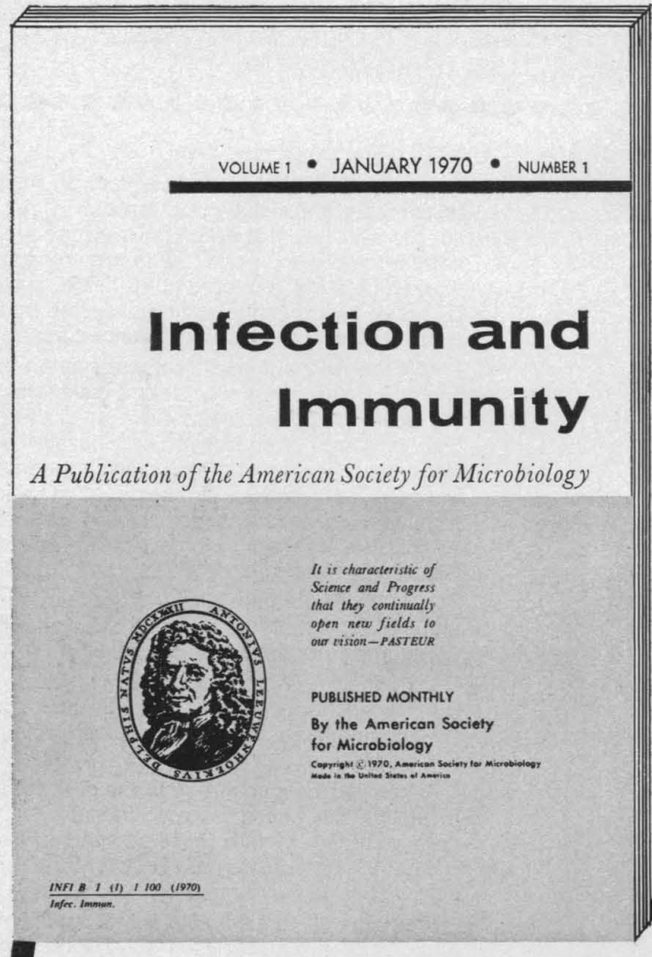

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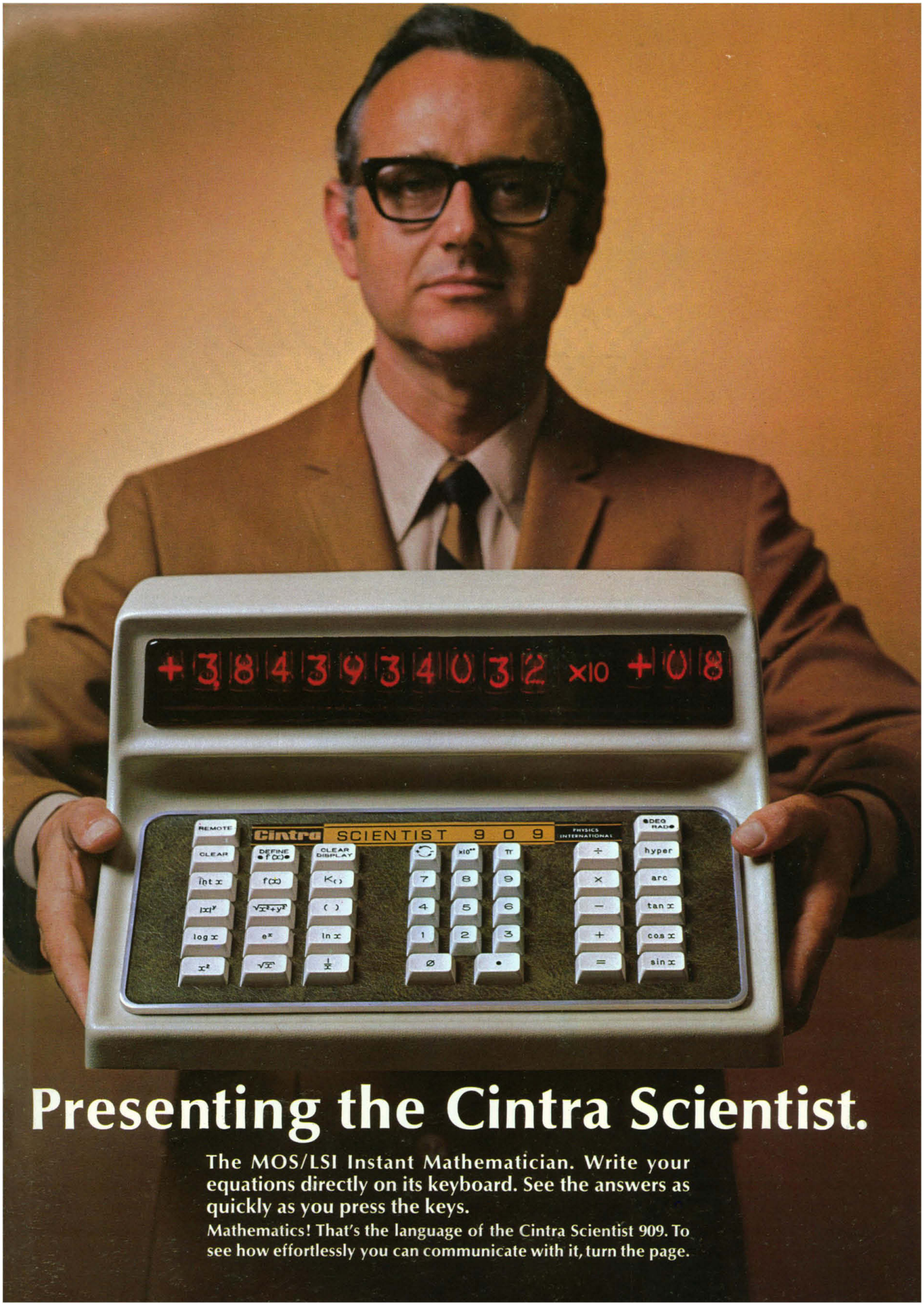

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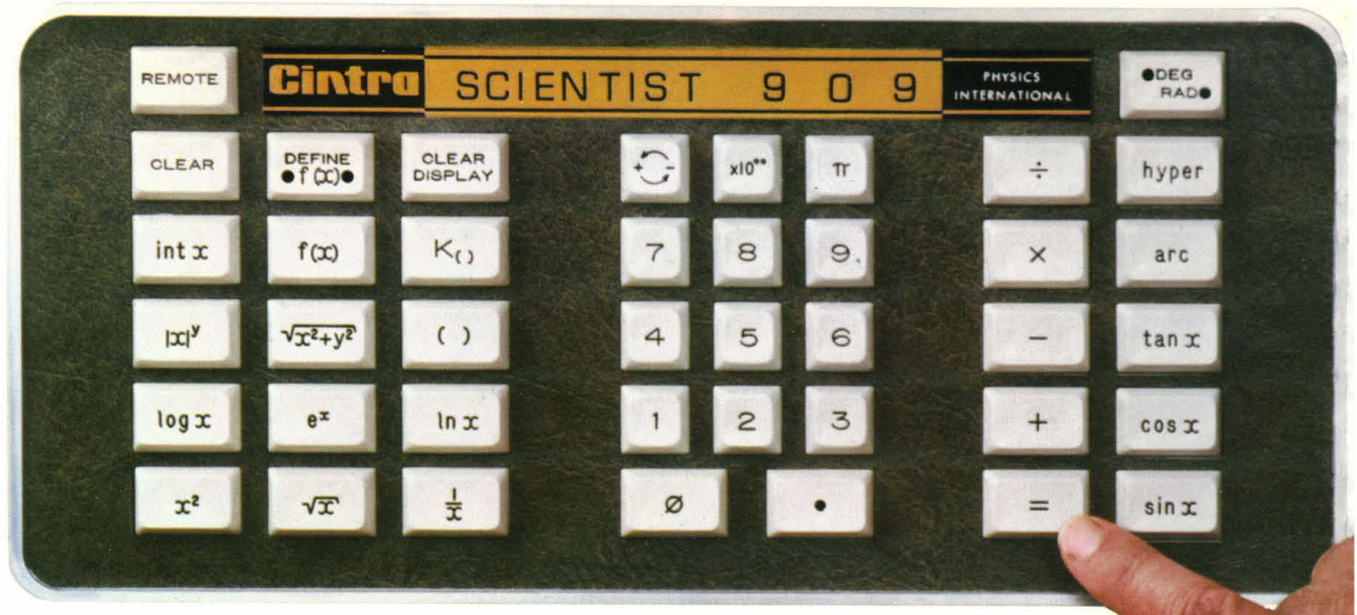

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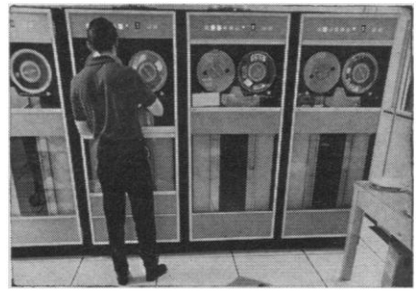

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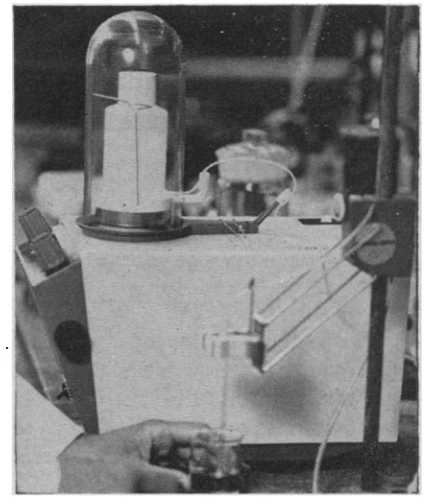

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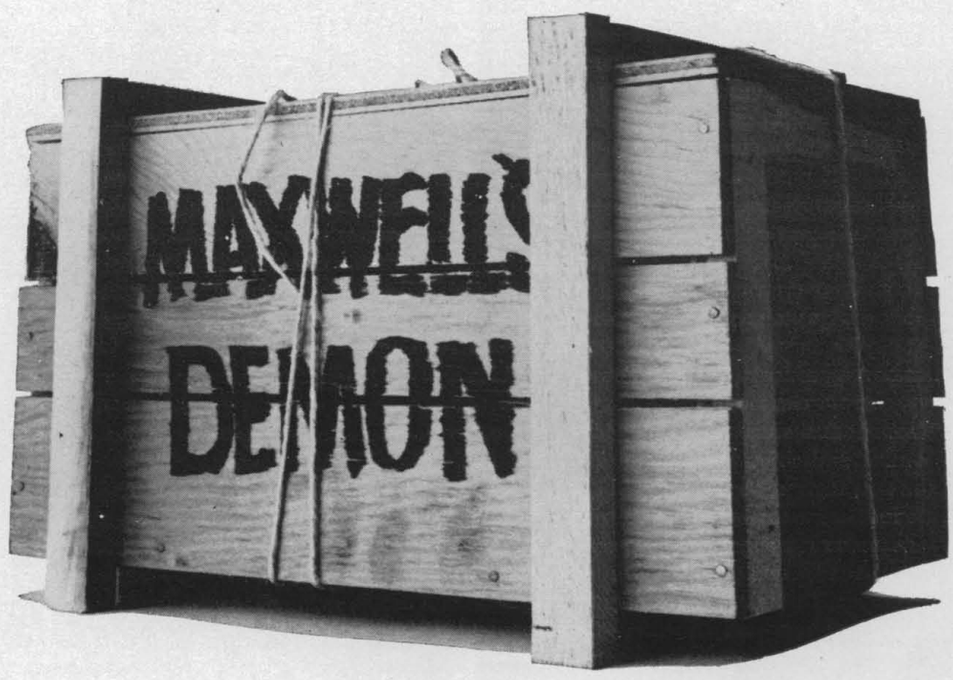

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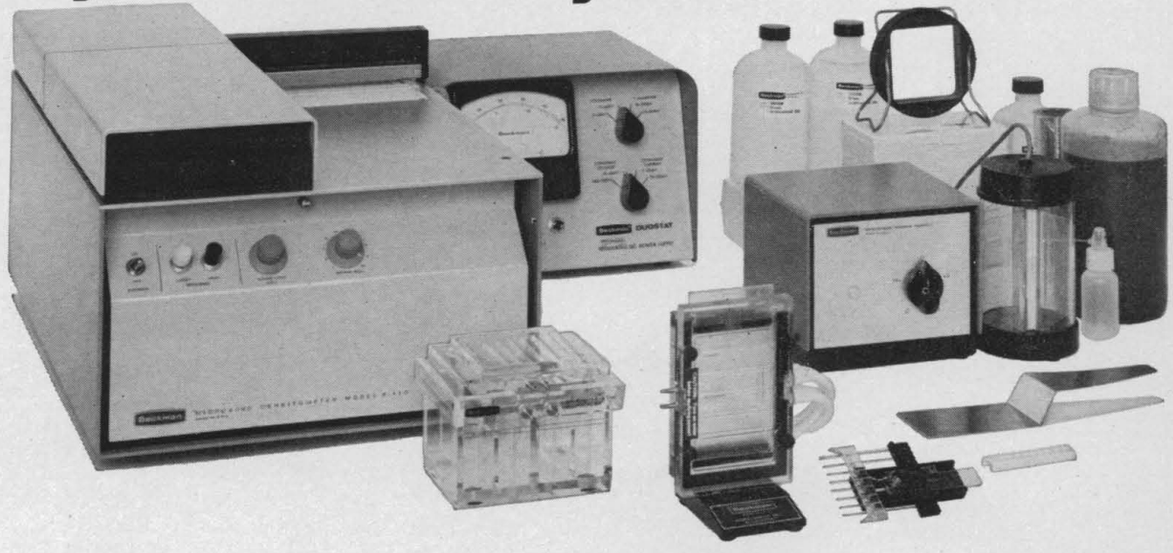

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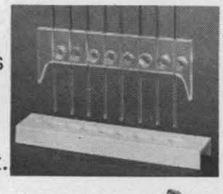

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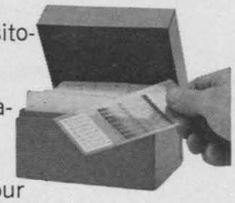

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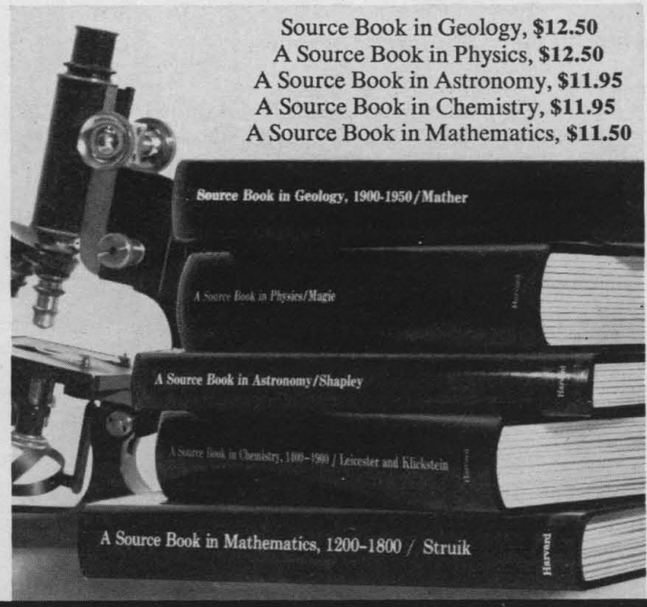

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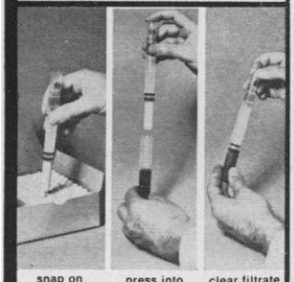

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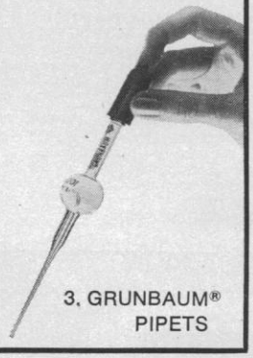

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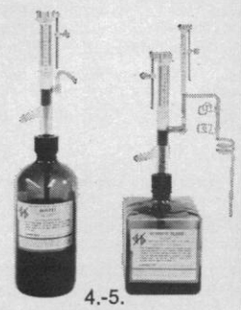

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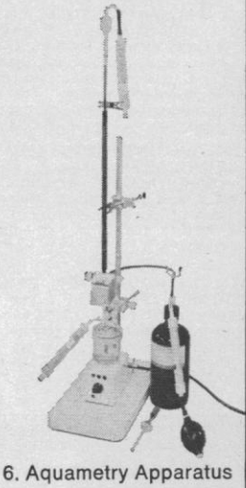
Prices: REPIPETS, $52.50; Dilutors, $99.50. Micro and Macro Teflon® tips included.



6. Aquametry Apparatus

6. Aquametry Apparatus. L/I's inexpensive Karl Fischer Aquametry Apparatus precisely determines water content of most materials in 4 minutes (1 ppm to 100% water). L/I's versatile apparatus uses the original stock K-F reagent bottle as a reservoir. The "reaction vessel" is an ordinary 4 oz., commonly available, disposable "cream" jar. It is interchangeable with a micro-reaction vessel requiring less than 2 cc total reaction volume for micro-aquametry applications.

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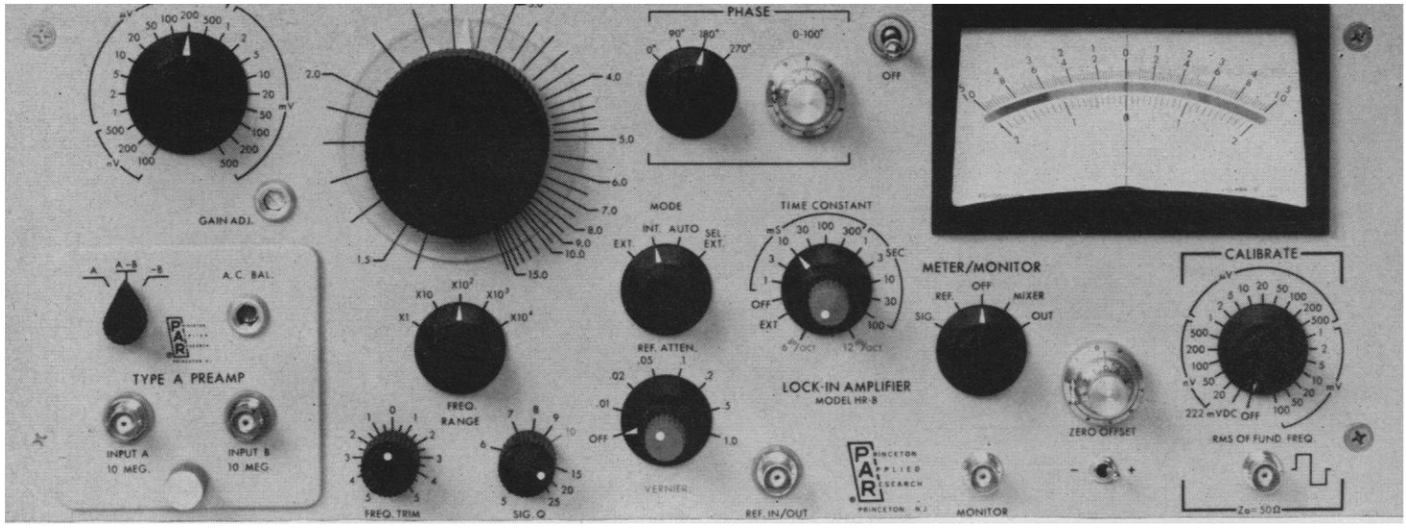

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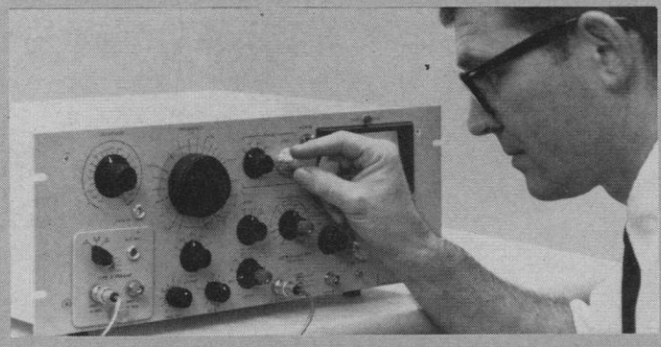

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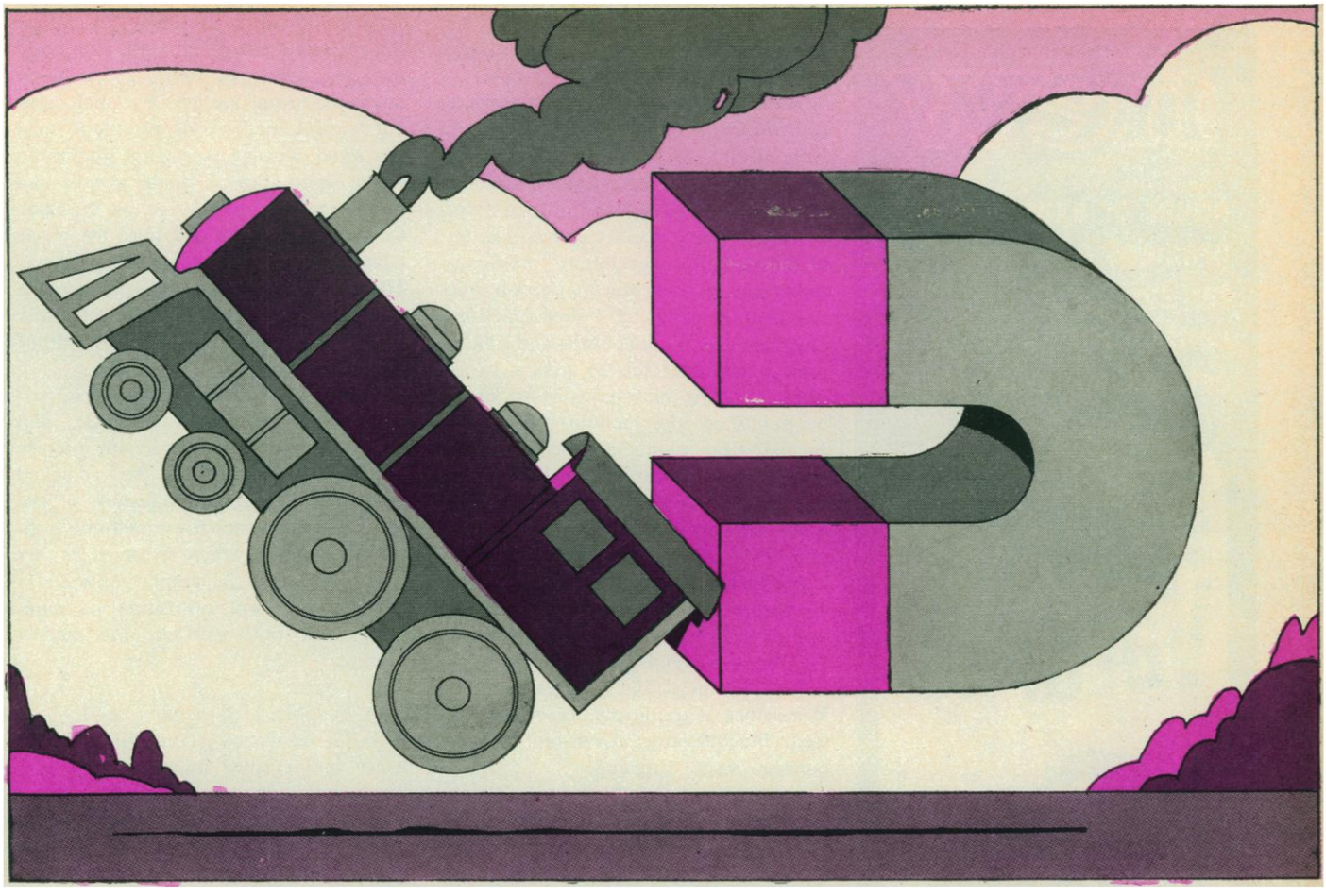

Rare earths for better magnets

Scientists at Bell Laboratories have cast some of the most powerful small magnets ever made... from new materials containing rare earths. The new materials, alloys of cobalt, copper, and samarium or cerium, have the highest known intrinsic coercive force (field required to reduce intrinsic magnetization to zero). So, they make excellent permanent magnets.

It often requires very high magnetic fields to completely magnetize intermetallic compounds of samarium, cerium, and other rare-earth metals in certain crystal directions. While iron may require fields of hundreds of oersteds, and cobalt probably ten thousand (depending on grain orientation), compounds of rare-earth metals may need up to 200,000 oersteds. To students of magnetism, this indicates a material of high coercive force.

In practice, however, it is difficult to calculate coercive force accurately because the process of demagnetization in these alloys is not well enough understood. Predictions are often higher than what is realized. But we do know that very small grains tend to produce higher coercive force. Also, the better the grain alignment in a favorable magnetic-field direction, the higher the magnetic flux.

By taking a new approach toward the best grain size and alignment in pieces of samarium- or cerium-cobalt, E. A. Nesbitt and his colleagues at Bell Laboratories produced a magnet having a coercive force of at least 28,700 oersteds. First, they combined essentially non-magnetic copper-samarium with a magnetic material, cobalt-samarium, into a new alloy possessing a solid mass of very fine grains. Then by cooling the melt rapidly in one direction, they produced long, thin crystals along which desirable magnetic properties tend to align. Finally, they annealed the material at about 400° C.

The highest coercive force is reached in a composition ranging from $Co_{3.5}Cu_{1.5}Sm$ to Co_3Cu_2Sm. Excellent permanent magnets can also be made by using cerium, which is cheaper than samarium.

Today, commercial permanent-magnet materials have intrinsic coercive forces below 5000 oersteds. The high forces achieved in the new materials permit practical strong magnets in small shapes, such as discs. Such shapes would be ideal for, say, miniature d-c motors.

From the Research and Development Unit of the Bell System—

Bell Labs

Bioenergetics Bulletin Prospers

A year ago the birth of *Bioenergetics Bulletin* was announced (Letters, 15 Nov. 1968). Since then, it has circulated monthly to about 250 scientists in the United States and abroad information in the areas of electron transfer, oxidative phosphorylation, photosynthesis and photosynthetic phosphorylation, associated energy linked functions, biogenesis of mitochondria and chloroplasts, and other related topics. In addition to short summaries of papers to be published, the bulletin presents informal discussions and criticism of concepts and techniques which might not be appropriate for publication in more formal journals. A Job Mart is one of the newest services.

Membership in this information exchange group may be obtained by writing to me; for those living outside the Western Hemisphere, by writing to R. B. Beechey, Shell Research, Ltd., Woodstock Agricultural Research Centre, Biochemistry Division, Sittingbourne, Kent, England.

ROBERT E. BEYER
Laboratory of Chemical Biology, Department of Zoology, University of Michigan, Ann Arbor

Indian Agriculture: Modern Methods Produce Good Harvests

T. W. Schultz of the University of Chicago (24 Jan., p. 408) believes that in order to take advantage of recent advances in agricultural science in India it will be necessary to shift the main effort to South India and the Gangetic plains.

I would like to correct this impression. For the last 7 years we have been applying the recent advances to our farm of about 25 acres near Ranchi which is not in the above areas. The rainfall is 58 inches a year, mostly in the monsoon. There are large areas in Central India with a similar climate and rainfall. For irrigation we use open wells and electric pumps. The terrain is unsuitable for tube wells. Our production now averages 5000 pounds of rice (unhusked) and 4000 pounds of wheat per acre. In addition, we take a third crop of maize and summer rice.

Many of our relations live in Kerala, a major "rice bowl" of South India, and when they visit us they say they have never seen anything like our productivity. The scope of agriculture in the plateau areas is immense and could feed the whole of India. It could be increased even further by such new but feasible methods as polythene-lined rainwater storage reservoirs and polythene dams buried underground between rocky outcrops, so as to block the percolation gap and raise the water table for open wells to function better. These areas have advantages over the traditional rice-growing lands of India —the main one being a freedom from floods.

This kind of farming is quite impossible without suitable livestock, and hence there is no need for any dietary imbalance. Results can be achieved simply by energetic application of the following well-known agricultural principles, some of which I noted in my letter published 12 January 1968.

1) Storage and utilization of monsoon rain, both surface and underground.

2) Correct and adequate fertilizers.

3) Suitable high-yielding seed.

4) Mixed farming for utilization of waste and surplus materials and production of manure and protein food.

5) Proper use of pesticides both during growth and in storage.

6) Scientific storage and crop drying equipment (this is not yet available to us).

Such methods as these and not the blind application of mechanical farming are more apt to solve the food problem of developing countries.

ROBERT B. DAVIS
Boreya Road, Kanke, Ranchi-7, Bihar, India

Perils of Disease

In his letter (14 Nov.) O. M. Marx asks why the insides of planes returning from abroad are sprayed with an insecticide solution, which the stewardess informed him was DDT (to the public, all insecticides currently are DDT). The answer, of course, is to kill mosquitoes, especially *Anopheles gambiae*, which can carry diseases such as yellow fever and malaria into the United States (*1*). I perfer DDT to yellow fever.

THOMAS H. JUKES
University of California, Berkeley 94720

Reference

1. *DDT in Human and Veterinary Medicine*, P. Müller, Ed. (Birkhauser Verlag, Basel, 1959), vol. 2, pp. 370, 461.

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9 January 1970, Volume 167, Number 3915

SCIENCE

Selective Service and College Enrollment

The Selective Service procedures now going into effect have the great advantage over recent practices in that they shorten a man's period of vulnerability to 1 year and, for many men, reduce or eliminate uncertainty over their chances of being drafted. Thus men of draft age will be able to plan ahead with greater confidence than has been possible in recent years.

The prolonged uncertainty and vulnerability in recent years have had the paradoxical effect of keeping some men in college and of keeping others out—both for the same reason: the desire to avoid military service.

It may be useful to consider possible effects of the new procedures on college and university enrollment. In 1967, 25 percent of the engineering graduates entered graduate work immediately. The percentage dropped to 18 in 1968 and to 16 in 1969. The Engineers Joint Council attributes this decline to the decision of many young engineers to enter industry in the hope that their local boards would defer them because of the work they were doing. Under the new system, a college graduate will have completed his military service, will have passed his year of vulnerability, or will be able to estimate his chance of being drafted within the year. Most students who want to go to graduate school will now be able to do so with little likelihood of being called for induction.

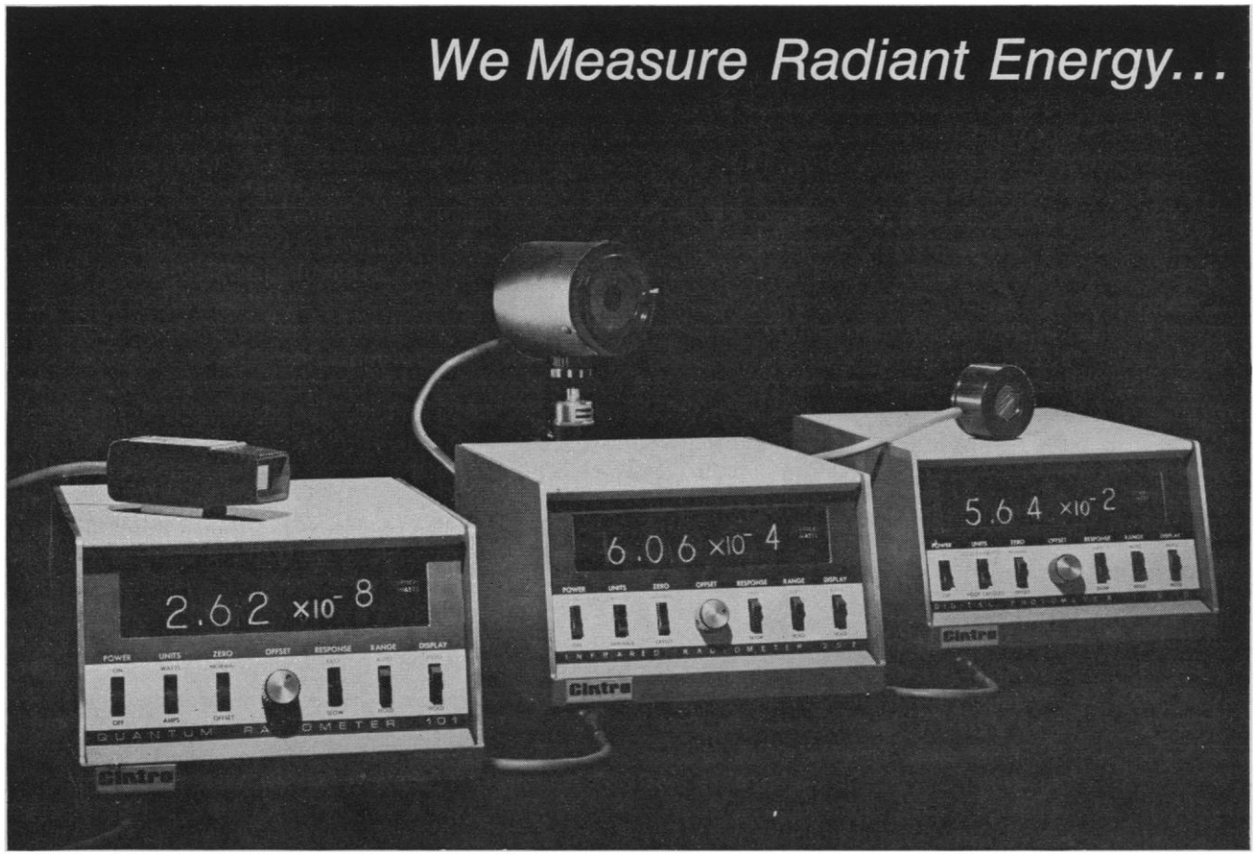
The same Selective Service practices have kept other men in college. Any undergraduate can be deferred as long as he continues to make normal progress toward a bachelor's degree. Although deferments for graduate work were abolished in 1968, many graduate students have been permitted to postpone induction to the end of the school year or until receipt of a degree. Thus colleges and universities have been used as draft shelters by young men who did not particularly want to be in college but who wanted even less to be in the Army.

This year, many men low on the order of call and, after this year, men who have graduated from the prime age group without being called will not need draft shelters. If it turns out that a substantial number of such men leave college, or do not enter, enrol'ment will increase more slowly in the next few years than has been expected on the basis of population trends, which indicate a slower increase in the 1970's than in the 1960's.

A substantial reduction in the use of college as a draft shelter would have the secondary effect of lessening the number of new appointments necessary to maintain adequate faculty size, and that number, as with enrollment, will in any event be smaller in the 1970's than in the 1960's.

Less rapid increase in faculty size, cutbacks of research funds, and some industrial curtai'ment are already reducing the rate of increase of demand in the scientific fields. The current situation seems to be that shortages will continue in engineering and the health fields but that shortages of scientists for teaching and research posts are now easing.

The uncertainty of some of these speculations is itself worthy of note. The greater assurance with which individuals can plan ahead is an advantage to the young men involved, but uncertainty as to how they will respond makes it necessary to guess what the secondary effects will be. A country that collects great masses of data on all manner of things must still do a good deal of guessing about the educational facilities that will be needed in the future and the ways in which even such important changes as the current one in Selective Service influence educational and occupational planning.—DAEL WOLFLE



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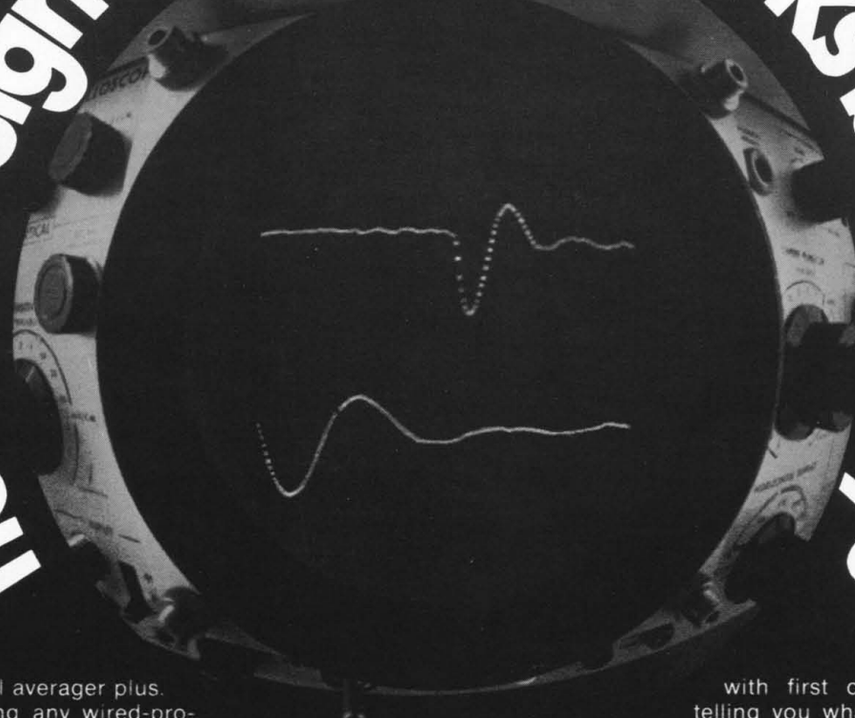

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our knowledge of the Purkyne fibers lying on the inner surfaces of the ventricles of hearts. Action potentials can now be recorded from tiny segments of Purkyne fibers and these may be correlated with ionic shifts by means of the voltage clamp technique.

A feature of the symposium was an extensive exhibit of pictorial and documentary material relating to Purkyne. This was well arranged by Kruta. In the State Museum there was an exhibit of Purkyne's work in anthropology. In honor of the centennial of Purkyne's death, the Czechoslovakian Mint issued a 25 kronen silver coin carrying Purkyne's face in profile. The symposium closed with a dinner at Libochovice, where Purkyne was born. The proceedings of the symposium are to be edited by Kruta, and will be published by the Czechoslovak Academy of Science. For the symposium the Prague State Opera gave a delightful performance to a crowded and enthusiastic audience of Anton Dvorak's *Jakobin*, in which young liberalism finally triumphs over stale and pompous conservatism.

The symposium was sponsored by the Czech universities, the Czechoslovak Academy of Sciences, the Czechoslovak Medical Society, the International Union of Physiological Sciences, the International Brain Research Organization, the International Union for the History and Philosophy of Science, and UNESCO.

CHAUNCEY D. LEAKE
University of California
School of Medicine,
San Francisco 94122

Courses

Immunology. This course was announced on page 657 of the 31 October issue. However, there are two changes in content: (i) the course will be held at the University of California at San Diego, in La Jolla, Calif.; and (ii) the deadline for applications is 1 March 1970.

Electron Microscopy in the Biological Sciences, Boston, Mass., 15–27 June; 11th session. A 3-week intensive program in the preparation of biological materials as electron-microscope specimens, electron microscopy, and interpretation of results. Designed for predoctoral students and laboratory assistants who wish to use the electron microscope in research, but who have little or no experience in the field. Doctoral-level investigators will be considered. Limited to 12 students. (Professor Clifford Youse, Center for Continuing Education, Northeastern University, 360 Huntington Ave., Boston 02115)

Fertilization and Gamete Physiology,

Woods Hole, Mass., 12 June–23 August. Emphasis will be on immunological, cytological, biochemical, and physiological research on marine organisms, both plant and animal, available at Woods Hole. The course is open to pre- and postdoctoral candidates. The senior training staff is international in character. *Deadline for applications*: 1 March. (Dr. Charles B. Metz, Institute of Molecular Evolution, University of Miami, 521 Anastasia, Coral Gables, Fla. 33134)

Biology of Aging, Stanford, Calif., 6–17 July. The purpose of this course is to interest young scientists in research on the biology of aging. The participants will be senior predoctoral and early postdoctoral students. Approximately 20 students who have been recommended by chairmen of departments of physiology, biochemistry, biophysics, molecular biology, and related disciplines will participate. Applications are now being accepted from department chairmen. The course content will include the aging process (overview), cellular aging, and subcellular and molecular aging. The costs of the course will be paid for by the Adult Development and Aging Branch, National Institute of Child Health and Human Development. *Deadline for applications*: 1 February. (Dr. Gabe Maletta, Adult Development and Aging Branch, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, Md. 20014)

Summer Seminars in Rocky Mountain National Park, Estes Park, Colorado. The subjects covered will include mountain geology (22–27 June, 20 students), mountain ecology (29 June–4 July, 25 students), bird ecology (6–11 July, 20 students), plant identification (6–11 July, 20 students), animal ecology (13–18 July, 25 students), alpine ecology (13–18 July, 20 students), mountain geology (second session, 20–25 July, 20 students), advanced plant identification (20–25 July, 15 students), and conservation ecology workshop (27 July–8 August, 25 students). The seminars are held in Rocky Mountain National Park, and consist primarily of field trips in the Park—an area "designed" for sudy of ecology. Laboratory work and lectures will also be included. Fees for the seminars are $35 for 1 week, $65 for 2 weeks, $95 for 3 weeks, $125 for 4 weeks, $155 for 5 weeks, $65 for the conservation workship, $215 for six seminars. *Deadline for applications*: 1 June. (Tom D. Thomas, Executive Secretary, Rocky Mountain Nature Association, Estes Park 80517)

Alcohol Studies, New Brunswick, N.J., 28 June–17 July. This is a program of interdisciplinary lectures and 18 specialized courses of interest to physicians, clinical psychologists, social scientists, educators, public health workers, and others employed in some alcohol problems area. Students are expected to register for two courses—a basic course in the student's special area of interest and a second or audit course. Among the courses offered are medical aspects of alcoholism, function and structure of alcoholism services, and organizing and developing alcoholism programs in a public health setting. *Fee*: $350. (Milon A. Maxwell, Executive Director, Summer School of Alcohol Studies, Rutgers University, New Brunswick 08903)

Forthcoming Events

February

1–14. **Alcoholism and Drug Dependence,** Sydney, Australia. (P. Diehm, Foundation for Research and Treatment of Alcholism, P.O. Box 3284, Sydney)

2–6. American Soc. for **Testing and Materials,** 3rd, Cincinnati, Ohio. (T. A. Marshall, Jr., 1916 Race St., Philadelphia, Pa.)

9–10. **Tolerance, Immunity and Molecular Aging** Symp., Miami Beach, Fla. (M. Rockstein, Dept. of Physiology, Univ. of Miami School of Medicine, Miami 33152)

9–12. American Soc. of **Range Management,** Denver, Colo. (F. T. Colbert, 2120 Birch St., Denver 80222)

9–13. American **Meteorological** Soc., Washington, D.C. (K. C. Spengler, AMS, 45 Beacon St., Boston, Mass.)

11–12. **Source and Control,** Urbana, Ill. (R. S. Engelbrecht, 3230 Civil Engineering Bldg., Univ. of Illinois, Urbana)

15–18. American Inst. of **Chemical Engineers,** Atlanta, Ga. (H. A. McGee Jr., Dept. of Chemical Engineering, Georgia Inst. of Technology, Atlanta)

15–19. Society of **Economic Geologists,** Denver, Colo. (R. A. Laurence, Secretary, SEG, P.O. Box 1549, Knoxville, Tenn.)

15–19. American Inst. of **Mining, Metallurgical and Petroleum Engineers,** Denver, Colo. (G. T. Moffatt, Activities Manager, 345 East 47 St., New York 10017)

16–20. **Handling of Nuclear Information,** Vienna, Austria. (J. H. Kane, Div. of Technical Information, Atomic Energy Commission, Washington, D.C. 20545)

18–20. International **Solid-State Circuits** Conf., Philadelphia, Pa. (L. Winner, 152 West 42 St., New York 10036)

20–27. American Soc. of **Clinical Pathologists,** Las Vegas, Nev. (A. G. Boeck, Jr., 710 South Wolcott Ave., Chicago, Ill. 60612)

20–27. College of American **Pathologists,** Las Vegas, Nev. (O. J. Neibel, Jr., CAP, 230 North Michigan Ave., Chicago, Ill. 60601)

22–27. **Engineering Foundation** Research Conf., Pacific Grove, Calif. (E. O. Pfrang, Nat. Bureau of Standards, Washington, D.C.)

22–1. **Animal and Plant Toxins,** 2nd intern. symp., Tel Aviv, Israel. (A. De Vries, P.O. Box 85, Petah Tikva, Israel)

23–24. **Chemical Marketing Research** Assoc., Houston, Tex. (P. E. Levesque, FMC Corporation, 633 Third Ave., New York 10017)

25–27. **Biophysical** Soc., Baltimore, Md. (W. A. Brodsky, Inst. for Medical Research, 220 E. 23 St., New York 10010)

25–27. **Pesticides in the Soil,** East Lansing, Mich. (S. K. Ries, Dept. of Horticulture, Michigan State Univ., East Lansing)

25–1. American College of **Cardiology,** New Orleans, La. (W. D. Nelligan, AMCC, 9650 Rockville Pike, Bethesda, Md. 20014)

26–27. New **Commercial Technical Developments,** 3rd intern. conf., Rotterdam, Netherlands. (Secretariat, c/o Holland Organizing Centre, 16 Lange Voorhout, The Hague, Netherlands)

26–28. American Acad. of **Forensic Sciences**, Chicago, Ill. (A. H. Schatz, 750 Main St., Room 1000, Hartford, Conn. 06103)

28–6. American Assoc. of **Junior Colleges**, Honolulu, Hawaii. (E. J. Gleazer, 1315 16th St., NW, Washington, D.C.)

March

1–5. **Radiation** Research Soc., 18th annual, Dallas, Tex. (R. J. Burk, American Univ., Washington, D.C. 20016)

1–5. American **Radium** Soc., 52nd annual, San Diego, Calif. (F. G. Bloedorn, Univ. of Maryland, Baltimore 21201)

1–6. **Analytical Chemistry and Applied Spectroscopy**, 21st conf., Cleveland, Ohio. (R. Mainier, Koppers Co., Inc., 440 College Park Dr., Monroeville, Pa. 15146)

1–6. American Soc. of **Photogrammetry**, Washington, D.C. (L. P. Jacobs, 105 N. Virginia Ave., Falls Church, Va. 22046)

1–6. American Congr. on **Surveying and Mapping** and the American Soc. of Photogrammetry, Washington, D.C. (R. R. Randall, Room 1104, National Press Bldg., Washington, D.C. 20004)

2–4. American **Crystallographic** Assoc., New Orleans, La. (C. J. Fritchie, Chemistry Dept., Tulane Univ., New Orleans)

2–6. **Automatic Control in Space**, 3rd symp., Toulouse, France. (H. Desmoutier, LASS, B.P. 4036, 31 Toulouse 04)

2–6. **Engineering Design** Show and Conf., Brighton, England. (Miss L. Harvey, Business Conf. and Exhibitions Ltd., Mercury House, Waterloo Rd., London S.E.1)

3–6. American **Educational Research** Assoc., Minneapolis, Minn. (R. A. Dershimer, AERA, 1126 16th St., NW, Washington, D.C. 20036)

4–6. **Fundamental Cancer Research**, 24th annual symp., Houston, Tex. (F. Goff, Special Projects, M. D. Anderson Hospital and Tumor Inst., Univ. of Texas, Houston 77025)

4–6. **Ophthalmology**, 21st intern. congr., Mexico City, Mexico. (S. A. Zertuche, Apartado Postal, 35-523, Mexico City)

8–11. American Assoc. of **Petroleum Geologists**, Dallas, Tex. (E. W. Ellsworth, AAPG, 1444 South Bolder, Tulsa, Okla. 74101)

8–14. American Assoc. of **Pathologists and Bacteriologists**, 67th annual, St. Louis, Mo. (K. M. Brinkhous, Univ. of North Carolina School of Medicine, Chapel Hill)

9–13. **Fast Breeder Reactors**, Vienna, Austria. (International Atomic Energy Agency, Kaerntnerring 11, A-1010, Vienna)

9–13. **Use of Isotopes in Hydrology**, Vienna, Austria. (International Atomic Energy Agency, Kaerntnerring 11, A-1010, Vienna)

9–14. **Primary Radiation Effects in Chemistry and Biology**, intern. mtg., Mar del Plata, Argentina. (M. A. Molinari, Comision Nacional de Energia Atomica, Avenida del Libertador 8250, Buenos Aires, S29, Argentina)

9–14. **Waste Water of the Agricultural Industry**, 12th intern. symp., Budapest, Hungary. (Secretariat General Commission, International des Industries, Agricoles et Alimentaries, 18 Avenue de Villars 75, Paris, France)

10–11. **Ash Utilization**, 2nd symp., Pittsburgh, Pa. (N. H. Coats, General Chairman, U.S. Bureau of Mines, P.O. Box 880, Morgantown, W.Va. 26505)

10–12. Conference to Focus on **Changing Roles in Information Services**, Boston, Mass. (S. Keenan, Natl. Federation of Science Abstracting and Indexing Services, 2102 Arch St., Philadelphia, Pa. 19103)

11–13. Institute of **Electrical and Electronics Engineers**, Inc. Scintillation and Semiconductor Counter Symp., Washington, D.C. (The Institute, 345 E. 47 St., New York, N.Y.)

12–13. **Automated High-Resolution Analysis** in the Clinical Lab., 2nd annual, Oak Ridge, Tenn. (B. Bolus, Oak Ridge Natl. Lab., Oak Ridge, Tenn. 37830)

12–13. American Soc. of **Civil Engineers**, Washington, D.C. (S. E. Kappe, P.O. Box 1036, Rockville, Md. 20850)

12–14. Florida **Acad. of Sciences**, Jacksonville. (K. E. Chernetski, Dept. of Zoology, Univ. of Florida, Gainesville 32601)

15–19. International **Anesthesia Research** Soc., 44th congr., Las Vegas, Nev. (Executive Secretary, IARS, 3645 Warrensville Center Rd., Cleveland, Ohio 44122)

15–19. Society of **Toxicology**, annual scientific mtg., Atlanta, Ga. (J. F. Borzelleca, Dept. of Pharmacology, Medical College of Virginia, Richmond 23219)

16–18. American Soc. of **Mechanical Engineers, Plant Engineers and Maintenance**, Fort Worth, Tex. (A. B. Conlin, 345 E. 47 St., New York 10017)

16–18. **Solar Energy** Soc., 6th annual mtg., Sydney, Australia. (F. E. Edlin, Arizona State Univ., Tempe)

16–19. International Assoc. for **Dental Research**, 48th session, New York, N.Y. (A. R. Frechette, Executive Secretary, 211 East Chicago Ave., Chicago, Ill. 60611)

16–20. Symposium on **Fourier Spectroscopy**, Aspen, Colo. (G. Vanasse, Air Force Cambridge Research Lab., L. G. Hanscom Field, Bedford, Mass. 01730)

17–25. **Horticulture**, 18th intern. congr., Tel-Aviv, Israel. (Mrs. L. Roman, Ministry of Agriculture, Ha-Qiurya, Tel-Aviv, Israel)

18–19. **Mineral Waste Utilization**, 2nd symp., Chicago, Ill. (M. A. Schwartz, IIT Research Inst., 10 W. 35 St., Chicago, Ill. 60616)

18–21. American **Fertility** Soc., annual mtg., Washington, D.C. (H. H. Thomas, 944 S. 18 St., Birmingham, Ala. 35205)

19–22. American Assoc. of **Dental Schools**, New York, N.Y. (B. F. Miller III, AADS, 211 E. Chicago Ave., Chicago, Ill.)

19–24. American **Dermatological** Assoc., Boca Raton, Fla. (B. Kennedy, Louisiana State Univ., School of Medicine, 1542 Tulane Ave., New Orleans, La.)

20–22. American **Psychosomatic** Soc., 27th annual, Washington, D.C. (J. W. Mason, 265 Nassau Rd., Roosevelt, N.Y. 11575)

20–22. National **Wildlife** Federation, Chicago, Ill. (T. L. Kimball, NWF, 1412 16th St., NW, Washington, D.C.)

22–25. **Environmental Mutagen** Soc., 1st annual, Washington, D.C. (E. Freese, Chairman, Program Committee, EMS, Building 36, Room 3D02, National Inst. of Health, Bethesda, Md. 20014)

23–26. American **Orthopsychiatric** Assoc., 4th annual, San Francisco, Calif. (M. F. Langer, 1790 Broadway, New York 10019)

23–26. American **Physical** Soc., Dallas, Tex. (W. W. Havens, 335 E. 45 St., New York 10019)

24–25. British **Biophysical Soc.**, Brighton, England. (E. M. Bradbury, Biophysics Lab., College of Technology, Portsmouth, PO1 2DZ, England)

24–26. **Engineering Aspects of Magnetohydrodynamics**, 11th symp., Pasadena, Calif. (L. G. Hays, Jet Propulsion Lab., California Inst. of Technology, 4800 Oak Grove Dr., Pasadena 91103)

24–26. National **Industrial Solid Wastes Management** Conf., Houston, Tex. (H. N. Myrick, Univ. of Houston, 3801 Cullen Blvd., Houston 77004)

25–27. Fundamental and Practical Aspects of **Pest Management**, Raleigh, N.C. (F. E. Guthrie, Dept. of Entomology, North Carolina State Univ., Raleigh)

26–28. Southern Soc. for **Philosophy and Psychology**, Durham, N.C. (W. Blackstone, Dept. of Philosophy, Univ. of Georgia, Athens)

26–28. **Seismological** Soc. of America, Hayward, Calif. (D. Tocher, P.O. Box 826, Berkeley, Calif. 94705)

26–29. American **Philosophical** Assoc., Berkeley, Calif. (A. Pasch, 117 Lehigh Rd., Univ. of Maryland, College Park 20742)

27–28. Northwest **Scientific** Assoc., Corvallis, Ore. (G. H. Deitschman, Intermountain Forest and Range Experiment Sta., P.O. Box 469, Moscow, Idaho 83843)

30–4. American College of **Radiology**, Dallas, Tex. (W. C. Stronach, ARC, 20 N. Wacker Dr., Chicago, Ill. 60606)

31–2. **Microwave Research**, intern. symp., New York, N.Y. (J. Fox, Polytechnic Inst. of Brooklyn, 333 Jay St., Brooklyn, N.Y.)

31–3. American Assoc. of **Anatomists**, Chicago, Ill. (R. T. Woodburne, Dept. of Anatomy, Univ. of Michigan, East Medical Bldg., Ann Arbor 48104)

31–3. Applications of **Walsh Function in Communications**, Washington, D.C. (H. F. Harmuth, Dept. of Electrical Engineers, Univ. of Maryland, College Park 20742)

April

1. Arkansas **Acad. of Science**, Russellville. (G. E. Templeton, Div. of Plant Pathology, Univ. of Arkansas, Fayetteville 72701)

1–3. National **Pollution Control** Conf. and Exposition, San Francisco, Calif. (Natl. Pollution Control Conf. and Exposition, P.O. Box 13116, Houston, Tex. 77019)

1–4. International Conf. on **Combinatorial Mathematics**, New York, N.Y. (L. R. Neville, New York Acad. of Sciences, 2 E. 63 St., New York 10021)

1–4. National Council of **Teachers of Mathematics**, 48th annual, Washington, D.C. (J. D. Gates, Executive Secretary, 1201 16th St. NW, Washington, D.C. 20036)

1–4. International Conf. on **Thermodynamics**, Cardiff, Wales. (Meetings Officer, Inst. of Physics and the Physical Society, 47 Belgrave Sq., London, S.W.1, England)

2–4. Michigan **Acad. of Science**, Arts, and Letters, 74th annual, Detroit, Mich. (T. G. Overmire, MASAL, 1721 Washtenaw, Ann Arbor, Mich. 48104)

2–4. Eastern **Psychological** Assoc., Atlantic City, N.J. (W. W. Cumming, 353 Schermerhorn Hall, Columbia Univ., New York 10027)

2–4. Association of **Southeastern Biologists**, Lakeland, Fla. (D. C. Bliss, Box 278, Randolph Macon Woman's College, Lynchburg, Va. 24504)

5–10. International **Anesthesia Research** Soc., 44th congr., Las Vegas, Nev. (B. B. Sankey, 3645 Warrensville Center Rd., Cleveland, Ohio 44122)

6–8. **Mineralogical** Soc. of Great Britain and Ireland, London, England. (P. Wilkinson, Dept. of Geology, Univ. of Sheffield, Sheffield–S1 3JD, England)

7–8. Society for **Experimental Biology**, Leicester, England. (A. P. M. Lockwood, Dept. of Oceanography, Univ. of Southampton, Southampton, England)

7–10. American **Optical** Soc., Philadelphia, Pa. (M. E. Warga, The Society, 2100 Pennsylvania Ave., NW, Washington, D.C. 20006)

8–10. United States **Pharmacopoeial** Conv., Washington, D.C. (Z. A. Hoffman, 4630 Montgomery Ave., Bethesda, Md. 20014)

8–11. American Acad. of **Oral Pathology**, San Diego, Calif. (S. M. Standish, c/o Indiana Univ. School of Dentistry, Indianapolis 46202)

9–10. **Metabolism and Biological Functions of Polyamines** Conf., New York, N.Y. (L. R. Neville, New York Acad. of Sciences, 2 E. 63 St., New York 10021)

9–10. **Metal Cleaning** Symp., Cleveland, Ohio. (W. M. Mueller, American Soc. for Metals, Metals Park, Ohio 44073)

9–10. National Conf. on **Rural Health**, 23rd, Milwaukee, Wis. (B. L. Bible, Council on Rural Health, 535 N. Dearborn St., Chicago, Ill. 60610)

9–11. American Assoc. for **Cancer Research**, Philadelphia, Pa. (H. J. Creech, The Association, 7701 Burholme Ave., Philadelphia 19111)

10–12. American Soc. of **Internal Medicine**, Philadelphia, Pa. (E. E. Daieske, 525 Hearst Bldg., 3rd at Market, San Francisco, Calif. 94103)

12–17. **Biomedical Engineering** Soc., 2nd annual, Atlantic City, N.J. (D. S. Gann, Case Western Reserve Univ., Cleveland, Ohio 44106)

12–17. Federation of American Societies for **Experimental Biology**, Atlantic City, N.J. (J. F. A. McManus, FASEB, 9650 Rockville Pike, Bethesda, Md. 20014)

12–17. American Soc. of **Hospital Pharmacists**, Washington, D.C. (J. A. Oddis, ASHP, 4630 Montgomery Ave., Bethesda, Md. 20014)

12–17. American Inst. of **Nutrition**, Atlantic City, N.J. (J. Waddell, 9650 Rockville Pike, Bethesda, Md. 20014)

12–17. American **Pharmaceutical** Assoc., Washington, D.C. (G. B. Griffenhagen, Div. of Communications, 2215 Constitution Ave., NW, Washington, D.C. 20037)

13–15. International Symp. on **Very Long Baseline Interferometry**, Charlottesville, Va. (J. W. Findlay, Natl. Radio Astronomy Observatory, Edgemont Rd., Charlottesville 22901)

13–16. American **Industrial Health** Conf., Chicago, Ill. (H. N. Schulz, AIHC, 55 E. Washington St., Chicago 60602)

13–16. American Acad. of **Pediatrics**, Washington, D.C. (G. E. Hughes, 1801 Hinman Ave., Evanston, Ill. 60204)

13–17. American **Physiological** Soc., Atlantic City, N.J. (R. G. Daggs, APS, 9650 Rockville Pike, Bethesda, Md. 20014)

13–18. World Congr. of the Intern. Federation of **Gynecology and Obstetrics**, New York, N.Y. (H. C. Taylor, Jr., 630 W. 168 St., New York 10032)

14–16. **Computer Graphics** Intern. Symp., London, England. (M. L. V. Pitteway, Computer Science Dept., Brunel Univ., Uxbridge, Middlesex, England)

14–16. Conference on **Nondestructive Evaluation**, Los Angeles, Calif. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

14–17. International **Geoscience Electronics** Symp., 2nd annual, Washington, D.C. (R. Bernstein, IBM Corp., 18100 Frederick Pike, Gaithersburg, Md. 20760)

15. Idaho **Acad. of Science**, Pocatello. (M. J. Bigelow, Chemistry Dept., Idaho State Univ., Pocatello 83201)

16–18. Symposium of Intern. **Geochemical Exploration**, Toronto, Canada. (R. W. Boyle, Geological Survey of Canada, 601 Booth St., Ottawa, Ont.)

16–18. **Nature of the Solid Earth**, Francis Birch Symp., Cambridge, Mass. (E. C. Robertson, U.S. Geological Survey, 8001 Newell St., Silver Spring, Md. 20910)

16–18. Ohio **Acad. of Science**, Wittenberg Univ., Springfield. (J. H. Melvin, 505 King Ave., Columbus, Ohio 43201)

16–18. **Population** Assoc. of America, Atlanta, Ga. (A. F. Ferriss, Russell Sage Foundation, 1755 Massachusetts Ave., NW, Washington, D.C. 20036)

17–19. **Discoveries in Biological Psychiatry** Symp., Baltimore, Md. (Symposium Secretary, Taylor Manor Hospital, Ellicott City, Md. 21043)

19–23. American Assoc. of **Cereal Chemists**, Minneapolis, Minn. (R. J. Tarleton, 1821 University Ave., St. Paul, Minn. 55104)

20–22. Society of **Operations Research**, Washington, D.C. (H. Berger, The Pentagon, Washington, D.C. 20301)

20–23. Southwestern **Surgical** Congr., Dallas, Tex. (J. A. Barney, 301 Pasteur Medical Bldg., Oklahomo City, Okla. 73103)

20–24. American **Geophysical** Union, Washington, D.C. (W. E. Smith, AGU, 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

20–24. **Metals Engineering** Conf., Cleveland, Ohio. (A. B. Conlin, Jr., 345 E. 47 St., New York 10017)

21–23. **Aerospace Nuclear Applications**, Huntsville, Ala. (A. D. Smith, American Nuclear Soc., 10102 Redland St., Huntsville 35802)

21–23. Conference on **Stress Corrosion Cracking**, Los Angeles, Calif. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

22–25. American Assoc. for **Child Care in the Hospital**, San Francisco, Calif. (H. H. Glaser, Stanford Children's Convalescent Hospital, Palo Alto, Calif. 94304)

23–25. Illinois State **Acad. of Science**,

Chicago, Ill. (K. Harmet, Dept. of Biology, Northern Illinois Univ., De Kalb)

23–26. Association of **Clinical Scientists**, Detroit, Mich. (R. P. MacFate, ACS, 125 N. Rutledge St., Pentwater, Mich. 49449)

24–25. Mississippi **Acad. of Sciences**, Clinton. (C. Q. Sheely, Drawer CQ, State College, Miss. 39762)

24–25. Nebraska **Acad. of Science**, Lincoln. (C. B. Schultz, Univ. of Nebraska, Lincoln 68508)

24–25. South Carolina **Acad. of Science**, Columbia. (L. H. Stevenson, Biology Dept., Univ. of South Carolina, Columbia 29208)

25–30. American **Ceramic** Soc., Inc., 72nd annual mtg., Philadelphia, Pa. (The Society, 4055 N. High St., Columbus, Ohio 43214)

26–30. **Group Medicine**, 1st intern. congr., Winnipeg, Canada. (R. E. Beamish, Manitoba Clinic, 790 Sherbrook St., Winnipeg 2, Man., Canada)

26–1. American Soc. for **Microbiology**, Boston, Mass. (R. W. Sarber, 1913 I St., NW, Washington, D.C. 20006)

27–29. **Frequency Control** Symp., 24th annual, Atlantic City, N.J. (J. M. Stanley, Electronics Components Lab., Fort Monmouth, N.J. 07703)

27–29. American **Surgical** Assoc., White Sulphur Springs, W. Va. (C. G. Shires, 5323 Harry Hines Blvd., Dallas, Tex. 75235)

27–30. National **Telemetering** Conf., Los Angeles, Calif. (A. V. Balakrishnan, Dept. of Engineering, Univ. of California, Los Angeles 90024)

27–2. American Acad. of **Neurology**, Miami Beach, Fla. (S. A. Nelson, Executive Director, The Academy, 4005 W. 65 St., Minneapolis, Minn. 55435)

28–30. Conference on the **Fatigue Problem**, Los Angeles, Calif. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

28–30. **Pi Gamma Mu**, Denver, Colo. (E. B. Urquhart, 1719 Ames St., Winfield, Kan. 67156)

29–1. **Instrument** Soc. of America, 2nd education symp., Montreal, Canada. (C. M. Skillern, The Foxboro Co., Foxboro, Mass.)

30–1. Kansas **Acad. of Science**, Wichita. (R. J. Robel, Div. of Biology, Kansas State Univ., Manhattan 66502)

May

1. Missouri **Acad. of Science**, Warrensburg. (E. A. McGinnes, Jr., 1-31 Agriculture, Univ. of Missouri, Columbia 65201)

1–2. Society for **Pediatric Research**, Atlantic City, N.J. (R. E. Greenberg, Dept. of Pediatrics, Stanford Univ., Stanford, Calif. 94305)

2–3. American Federation of **Clinical Research**, Atlantic City, N.J. (J. E. Brown, 2011 Eye St., NW, Washington, D.C. 20006)

3–6. European Federation of **Chemical Engineering**, 93rd, Vienna, Austria. (W. F. De Geest, Lijsenstraat 24 Berchem-Antwerp, Belgium)

3–6. Society of Professional **Well Log Analysts**, symp., 11th annual, Los Angeles, Calif. (J. D. Clark, 13507 Tosca, Houston, Tex. 77024)

3–8. International **Radiation Protection** Assoc., 2nd, Brighton, England. (B. Godbold, Central Electricity Generating Board, 20 Newgate St., London, E.C.1, England)

4–5. **Industrial Electronics** and **Control Instrumentation Transducer** Conf., 2nd annual, Gaithersburg, Md. (R. B. Spooner, IMPAC Instrument Service, 201 E. Carson St., Pittsburgh, Pa. 15219)

4–6. Instrument Soc. of America, 8th **Biomedical Sciences Instrumentation** Symp., Denver, Colo. (L. J. Brannick, E. R. Squibb & Sons, Inc., New Brunswick, N.J. 08901)

4–8. American **Nurses** Assoc., Miami, Fla. (Mrs. A. R. Warner, Dept. 10, Columbus Circle, New York 10019)

4–8. Society of **Plastics Engineers**, New York, N.Y. (J. H. Hyden, SPE, 656 W. Putnam Ave., Greenwich, Conn. 06830)

5–6. Association of American **Physicians**, Atlantic City, N.J. (J. B. Hickman. Indiana Univ. Medical Center, 1100 W. Michigan St., Indianapolis 46202)

5–7. Purdue **Industrial Waste** Conf., 25th, Lafayette, Ind. (D. E. Bloodgood, School of Civil Engineering, Purdue Univ., Lafayette 47907)

5–7. Modern **Welding Techniques** Conf., Los Angeles, Calif. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

5–8. Virginia **Acad. of Science**, Richmond. (R. C. Berry, The Academy, P.O. Box 9211, Richmond 23227)

6–9. American Inst. of **Industrial Engineers**, Cleveland, Ohio. (J. J. Jericho, AIIE, 345 E. 47 St., New York 10017)

7–8. National **Information Retrieval** Colloquium, 7th annual, Philadelphia, Pa. (P. Bagley, Information Engineering, 3401 Market St., Philadelphia)

7–9. Northeastern **Anthropological** Conf., Ottawa, Ont., Canada. (F. G. Vallee, Carleton Univ., Ottawa)

8–10. Society of **Biological Psychiatry**, San Francisco, Calif. (C. Shagass, Eastern Pennsylvania Psychiatric Inst., Henry Ave. and Abbottsford Rd., Philadelphia 19129)

8–11. American **Psychoanalytic** Assoc., San Francisco, Calif. (H. Fischer, Executive Secretary, APA, 1 E. 57 St., New York 10022)

10–12. American Assoc. of **Plastic Surgeons**, Colorado Springs, Colo. (C. W. Monroe, 715 Lake St., Oak Park, Ill. 60301)

10–14. **Metallurgical** Soc., Las Vegas, Nev. (J. V. Richard, Secretary, The Society, 345 E. 47 St., New York 10017)

10–15. **Chemical Vapour Deposition**, 2nd intern. conf., Los Angeles, Calif. (W. W. Smeltzer, Dept. of Metallurgy and Metallurgical Engineering, McMaster Univ., Hamilton, Ont., Canada)

10–15. **Electrochemical** Soc., Los Angeles, Calif. (E. G. Enck, Executive Secretary, The Society, 30 E. 42 St., New York 10017)

11–12. Council of **Biology Editors**, Ottawa, Ont., Canada. (K. Heumann, 9650 Rockville Pike, Bethesda, Md. 20014)

11–13. Instrument Soc. of America, 16th **Aerospace Instrumentation** Symp., Seattle, Wash. (J. M. Taylor, 3246 116th S.E., Bellevue, Wash. 98004)

11–13. **Television Measuring Techniques** Conf., London, England. (R. Larry, Institution of Electronic and Radio Engineers,

8-9, Bedford Sq., London, W.C.1, England)

11–15. **High Pressure**, 3rd intern. conf., Aviemore, Invernesshire, Scotland. (J. Schoeffer, Institution of Mechanical Engineers, 1 Birdcage Walk, London, S.W.1, England)

11–15. American **Industrial Hygiene** Assoc., Detroit, Mich. (G. D. Clayton. AIHA, 25711 Southfield Rd., Southfield, Mich. 48075)

11–15. American **Psychiatric** Assoc., San Francisco, Calif. (B. W. Hogan, APA, 1700 18th St., NW, Washington, D.C. 20009)

12–14. **Metal Matrix Composites** Conf., San Francisco, Calif. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

14–15. **Materials Selection** Symp., Cleveland, Ohio. (W. M. Mueller, American Soc. for Metals, Metals Park, Ohio 44073)

14–15. Southern **Textile Research** Conf., 10th annual, Hilton Head Island, S.C. (D. W. Snyder, Crompton Shenandoah Co., Drawer 907, Waynesboro, Va. 22980)

14–16. **Cardiovascular Diseases**, 6th annual symp., Hartford, Conn. (R. M. Jeresaty, Section of Cardiopulmonary Medicine, St. Francis Hospital, Hartford)

14–16. American Inst. of **Chemists**, Pittsburgh, Pa. (P. B. Slawter, 79 Madison Ave., New York 10016)

15–19. International Assoc. of Professional **Numismatists**, 19th general assembly, Scheveningen, The Hague, Netherlands. (A. Cronheim, Director, Holland Organizing Centre, 16 Lange Voorhout, The Hague)

17–30. International **Electrotechnical** Commission, Washington, D.C. (D. Hogan, U.S.A. Standards Inst., 10 E. 40 St., New York 10016)

18–20. National **Aerospace Electronics** Conf., Dayton, Ohio. (Inst. of Electrical and Electronics Engineers, Dayton Office, 134 E. Monument St., Dayton 45402)

18–20. **Neonatal Enteric Infections** Caused by *Escherichia coli*, Conf., New York, N.Y. (L. R. Neville, New York Acad. of Sciences, 2 E. 63 St., New York 10021)

18–20. Instrument Soc. of America. **Power Instrumentation** Symp., 13th, Kansas City, Mo. (R. A. Russell, Box 8405, Kansas City 64114)

18–20. **Steels for Dynamic Loading**, Cleveland, Ohio. (W. M. Mueller, American Soc. for Metals, Metals Park, Ohio)

18–22. **Air Force Materials** Symp. '70, Miami Beach, Fla. (J. Shipp, Executive Director, AFMS '70, P.O. Box 38, Dayton, Ohio 45420)

18–22. **Medical Library** Assoc., New Orleans, La. (H. B. Schmidt, Executive Secretary, MLA, 919 N. Michigan Ave., Chicago, Ill. 60611)

19–20. International Conf. on **Magnet Technology**, Hamburg, Germany. (W. Jentschke, German Hamburg Electron Synchrotron, Notkeskieg 1, D-2, Hamburg 52)

19–22. Society for **Experimental Stress Analysis**, Huntsville, Ala. (B. E. Rossi, 21 Bridge Sq., Westport, Conn. 06880)

20–22. Conference on **Fracture Control**: Theory and Application, Chicago, Ill. (A. M. Mueller, American Soc. for Metals, Metals Park, Ohio 44073)

BOOKS RECEIVED

(Continued from page 169)

Aversion Therapy and Behaviour Disorders: An Analysis. S. Rachman and J. Teasdale. University of Miami Press, Coral Gables, Fla., 1969. xiv + 186 pp., illus. $6.95.

Basic Drawing for Biology Students. Emil G. Bethke. Thomas, Springfield, Ill., 1969. xii + 88 pp., illus. $7. American Lecture Series, No. 746.

Bentley and Driver's Textbook of Pharmaceutical Chemistry. Revised by L. M. Atherden. Oxford University Press, New York, ed. 8, 1969. xii + 916 pp., illus. Paper, $14.

Biochemistry of Cell Division. A workshop, New York, April 1968. Renato Baserga, Ed. Thomas, Springfield, Ill., 1969. xii + 216 pp., illus. $15.50.

The Biological Aspects of Water Pollution. Charles G. Wilber. Thomas, Springfield, Ill., 1969. x + 298 pp., illus. $23.75.

Bird Vocalizations. Their Relations to Current Problems in Biology and Psychology. Essays presented to W. H. Thorpe. R. A. Hinde, Ed. Cambridge University Press, New York, 1969. xvi + 400 pp., illus. $13.50.

The Book of Spices. Frederic Rosengarten, Jr. Livingston, Wynnewood, Pa., 1969 (distributor, Macrae Smith, Philadelphia). xiv + 490 pp., illus. $20.

Computerized Library Catalogs: Their Growth, Cost, and Utility. J. L. Dolby, V. J. Forsyth, and H. L. Resnikoff. M.I.T. Press, Cambridge, Mass., 1969. x + 166 pp., illus. $10.

Concepts and Development of Quantum Physics. John C. Slater. Dover, New York, 1969. xiv + 324 pp., illus. Paper, $3. Reprint of the 1955 edition.

A Contribution to the Systematics of North American Species of Synhalonia (Hymenoptera, Apoidea). P. H. Timberlake. University of California Press, Berkeley, 1969. vi + 76 pp., illus. Paper, $3. University of California Publications in Entomology, vol. 57.

The Crisis of Industrial Society. Norman Birnbaum. Oxford University Press, New York, 1969. xii + 188 pp. Cloth, $4.75; paper, $1.75.

Current Topics in Bioenergetics. Vol. 3. D. Rao Sanadi, Ed. Academic Press, New York, 1969. xiv + 466 pp., illus. $21.

Darwin and the Beagle. Alan Moorehead. Harper and Row, New York, 1969. 280 pp., illus. $15.

Dispersion Relation Dynamics. A Phenomenological Introduction to S-Matrix Theory. Hugh Burkhardt. North-Holland, Amsterdam; Interscience (Wiley), New York, 1969. viii + 292 pp., illus. $18.50.

Elementary Numerical Analysis. Charles B. Tompkins and Walter L. Wilson, Jr. Prentice-Hall, Englewood Cliffs, N.J., 1969. xviii + 398 pp., illus. $10.50. Prentice-Hall Series in Applied Mathematics.

Elements of Advanced Quantum Theory. J. M. Ziman, Cambridge University Press, New York, 1969. xiv + 274 pp., illus. $9.50.

Enzymes of the Arterial Wall. John Esben Kirk. Academic Press, New York, 1969. xiv + 498 pp., illus. $21.50.

Everyone Was Brave. The Rise and Fall

Circle No. 103 on Readers' Service Card

Circle No. 101 on Readers' Service Card

Circle No. 105 on Readers' Service Card

Circle No. 106 on Readers' Service Card

of Feminism in America. William L. O'Neill. Quadrangle, Chicago, 1969. xiv + 370 pp. $7.95.

Experience in Hepatic Transplantation. Thomas E. Starzl, with the assistance of Charles W. Putnam. Saunders, Philadelphia, 1969. xxii + 554 pp., illus. $37.50.

Foetal Antonomy. A Ciba Foundation Symposium, London, December 1968. G. E. W. Wolstenholme and Maeve O'Connor, Eds. Churchill, London, 1969. x + 326 pp., illus. 70s.

Fundamental Techniques in Virology. Karl Habel and Norman P. Salzman, Eds. Academic Press, New York, 1969. xxii + 530 pp., illus. $17.50.

Giambattista Vico. An International Symposium. Giorgio Tagliacozzo, Hayden V. White, Isaiah Berlin, Max H. Fisch, and Elio Gianturco, Eds. Johns Hopkins Press, Baltimore, 1969. xxvi + 646 pp. $12.

The Grand Detour Phase. Warren W. Caldwell and Richard E. Jensen. River Basin Surveys, Smithsonian Institution, Lincoln, Neb., 1969. iv + 140 pp., illus. Paper. Publications in Salvage Archeology, No. 13.

The Grand Titration. Science and Society in East and West. Joseph Needham. Allen and Unwin, London, 1969. 352 pp. + plates. 63s.

Human Anatomy and Physiology. Barry G. King and Mary Jane Showers. Illustrated by Lucille Cassell Innes. Saunders, Philadelphia, ed. 6, 1969. xiv + 438 pp. + plates. $8.75.

Human Genetics. Victor A. McKusick. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1969. xviii + 222 pp., illus. Cloth, $5.95; paper, $3.95. Prentice-Hall Foundations of Modern Genetics Series.

Human Motivation. M. D. Vernon. Cambridge University Press, New York, 1969. viii + 192 pp. Cloth, $7.50; paper, $1.95.

Installing and Managing a Computer. Brian Rothery. Brandon/Systems, New York, 1969. x + 158 pp., illus. $9.

Integrated Product Testing and Evaluation. A Systems Approach to Improve Reliability and Quality. Harold L. Gilmore and Herbert C. Schwartz. Wiley-Interscience, New York, 1969. xvi + 352 pp., illus. $14.95.

International Review of Tropical Medicine. Vol. 3. David Richard Lincicome and A. W. Woodruff, Eds. Academic Press, New York, 1969. xxii + 266 pp., illus. $14.50.

Land for Tomorrow. Our Developing World. L. Dudley Stamp. Indiana University Press, Bloomington, 1969. 200 pp., illus. $6. Revised edition.

Marine Chemistry. The Structure of Water and the Chemistry of the Hydrosphere. R. A. Horne. Wiley-Interscience, New York, 1969. xxiv + 568 pp., illus. $19.95.

Matrix Analysis of Discontinuous Control Systems. P. V. Bromberg. J. O. Flower, Ed. Translated from the Russian edition (1967). Elsevier, New York, 1969. x + 266 pp., illus. $18.75.

Methods in Hormone Research. Vol. 2, Part A, Bioassay. Ralph I. Dorfman, Ed. Academic Press, New York, ed. 2, 1969. xiv + 610 pp., illus. $27.50.

Microbial Biogeochemistry. James E.

Zajic. Academic Press, New York, 1969. xiv + 346 pp., illus. $15.

Molecular Photobiology. Inactivation and Recovery. Kendric C. Smith and Philip C. Hanawalt. Academic Press, New York, 1969. xviii + 230 pp., illus. $10. Molecular Biology.

Nucleinsäuren. Biochemie und Funktionen. Eberhard Harbers. Georg Thieme Verlag, Stuttgart, 1969 (U.S. distributor, Intercontinental Medical Books, New York). xii + 216 pp., illus. Paper, DM 9. Einführungen zur Molekularbiologie, Band 1.

Number Words and Number Symbols. A Cultural History of Numbers. Karl Menninger. Translated from the revised German edition (Göttingen, 1958) by Paul Broneer. M.I.T. Press, Cambridge, Mass., 1969. xiv + 482 pp., illus. $15.

Numerical Analysis—The Mathematics of Computing. Vol. 1. W. A. Watson, T. Philipson, and P. J. Oates. Elsevier, New York, 1969. xii + 228 pp., illus. Paper, $4.50.

The Office. A Facet of Urban Growth. Peter Cowan, Daniel Fine, John Ireland, Clive Jordan, Dilys Mercer, and Angela Sears. Elsevier, New York, 1969. xii + 280 pp. + plates. $10.75.

Optimization Theory with Applications. Donald A. Pierre. Wiley, New York, 1969. xvi + 616 pp., illus. $16.95. Series in Decision and Control.

Organization and Development of the Embryo. Ross Granville Harrison. Sally Wilens, Ed. Yale University Press, New Haven, Conn., 1969. xxvi + 294 pp., illus. $15. Silliman Lectures, 42.

Photometric Methods of Analysis. A. B. Calder. Elsevier, New York, 1969. x + 312 pp., illus. $16.75.

Politics of Social Research. An Inquiry into the Ethics and Responsibilities of Social Scientists. Ralph L. Beals. Aldine, Chicago, 1969. x + 230 pp. $6.95.

A Programmed Introduction to Gas-Liquid Chromatography. J. B. Pattison. Heyden, London; Sadtler, Philadelphia, 1969. xvi + 304 pp., illus. Paper, $4.95.

Progress in Comparative Endocrinology. Proceedings of the 5th International Symposium, Delhi, India, November 1967. M. R. N. Prasad, Ed. Academic Press, New York, 1969. xx + 604 pp., illus. $29.50. General and Comparative Endocrinology, Suppl. 2, 1969.

Progress in Immunobiological Standardization. Vol. 3, Proceedings of the 10th International Congress for Microbiological Standardization, Prague, September 1967. R. H. Regamey, W. Hennessen, D. Ikic, and J. Ungar, Eds. Karger, Basel, 1969 (U.S. distributor, Phiebig, White Plains, N.Y.). xxvi + 378 pp., illus. $26.90.

The Regulation of Cell Metabolism. Georges Cohen. Translated from the French edition (Paris, 1967). Hermann, Paris; Holt, Rinehart and Winston, New York, 1969. 240 pp., illus. Cloth, $11.50; paper, $5.90. Molecular and Cellular Biology Series.

Répartitions Horaires et Intensité des Précipitations 1967. Institut Royal Météorologique de Belgique, Uccle-Bruxelles, Belgium, 1968. ii + 270 pp. Paper.

Research in the Chemical Industry. The Environment, Objectives and Strategy. A. Baines, F. R. Bradbury, and C. W. Suck-

ling. Elsevier, New York, 1969. xvi + 298 pp., illus. $12.50.

A Review of the Water Snakes of the Genus Natrix in Mexico. Roger Conant. American Museum of Natural History, New York, 1969. 140 pp. + plates. Paper, $8. Bulletin of the American Museum of Natural History, vol. 142, art. 1.

A Revision of the Genus Aglaonema (Araceae). Dan Henry Nicolson. Smithsonian Institution Press, Washington, D.C., 1969 (available from the Superintendent of Documents, Washington D.C.). iv + 72 pp., illus. Paper, $1.25. Smithsonian Contributions to Botany, No. 1.

Revision of Recent Bairdiidae (Ostracoda). Rosalie F. Maddocks. Smithsonian Institution Press, Washington, D.C., 1969 (available from the Superintendent of Documents, Washington, D.C.). iv + 128 pp., illus. Paper, $1. U.S. National Museum Bulletin 295.

The Sense of Time. An Electrophysiological Study of Its Mechanisms in Man. Josef Holubár. Translated from the Czech edition (Prague, 1961) by John S. Barlow. M.I.T. Press, Cambridge, Mass., 1969. xiv + 122 pp., illus. $5.95.

Sources of Quantum Mechanics. B. L. Van Der Waerden, Ed. Dover, New York, 1968. xiv + 434 pp., illus. Paper, $3. Classics of Science, vol. 5. Reprint of the 1967 edition.

The Spotted Sphinx. Joy Adamson. Harcourt, Brace and World, New York, 1969. vi + 314 pp., illus. $7.95. A Helen and Kurt Wolff Book.

The Structure and Connections of the Inferior Colliculus. An Investigation of the Lower Auditory System. J. van Noort. Van Gorcum, Assen, Netherlands, 1969 (U.S. distributor, Davis, Philadelphia). viii + 116 pp., illus. $13.50. Studies in Neuro-Anatomy, vol. 6.

The Structure and Function of Nervous Tissue. Vol. 2, Structure II and Physiology. Geoffrey H. Bourne, Ed. Academic Press, New York, 1969. xiv + 546 pp., illus. $29.

Technological Forecasting and Corporate Strategy. Gordon Wills, David Ashton, and Bernard Taylor, Eds. Elsevier, New York, 1969. xviii + 274 pp., illus. $13.50.

Theoretical Physics and Biology. Proceedings of the first international conference, Paris, June 1967. M. Marois, Ed. North-Holland, Amsterdam; Interscience (Wiley), New York, 1969. viii + 444 pp., illus. $16.

Theory and Interpretation of Fluorescence and Phosphorescence. Ralph S. Becker. Interscience (Wiley), New York, 1969. xvi + 288 pp., illus. $14.95.

Transsexualism and Sex Reassignment. Richard Green and John Money, Eds. Johns Hopkins Press, Baltimore, 1969. xxiv + 512 pp., illus. $15.

Type II Superconductivity. D. Saint-James, G. Sarma, and E. J. Thomas. Pergamon, New York, 1969. xii + 294 pp., illus. $14. International Series of Monographs in Natural Philosophy, vol. 17.

Universal Natural History and Theory of the Heavens. Immanuel Kant. New introduction by Milton K. Munitz. University of Michigan Press, Ann Arbor, 1969. xxiv + 182 pp. Paper, $2.45. Ann Arbor Paperbacks 158.