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12 April 1968

Vol. 160, No. 3824

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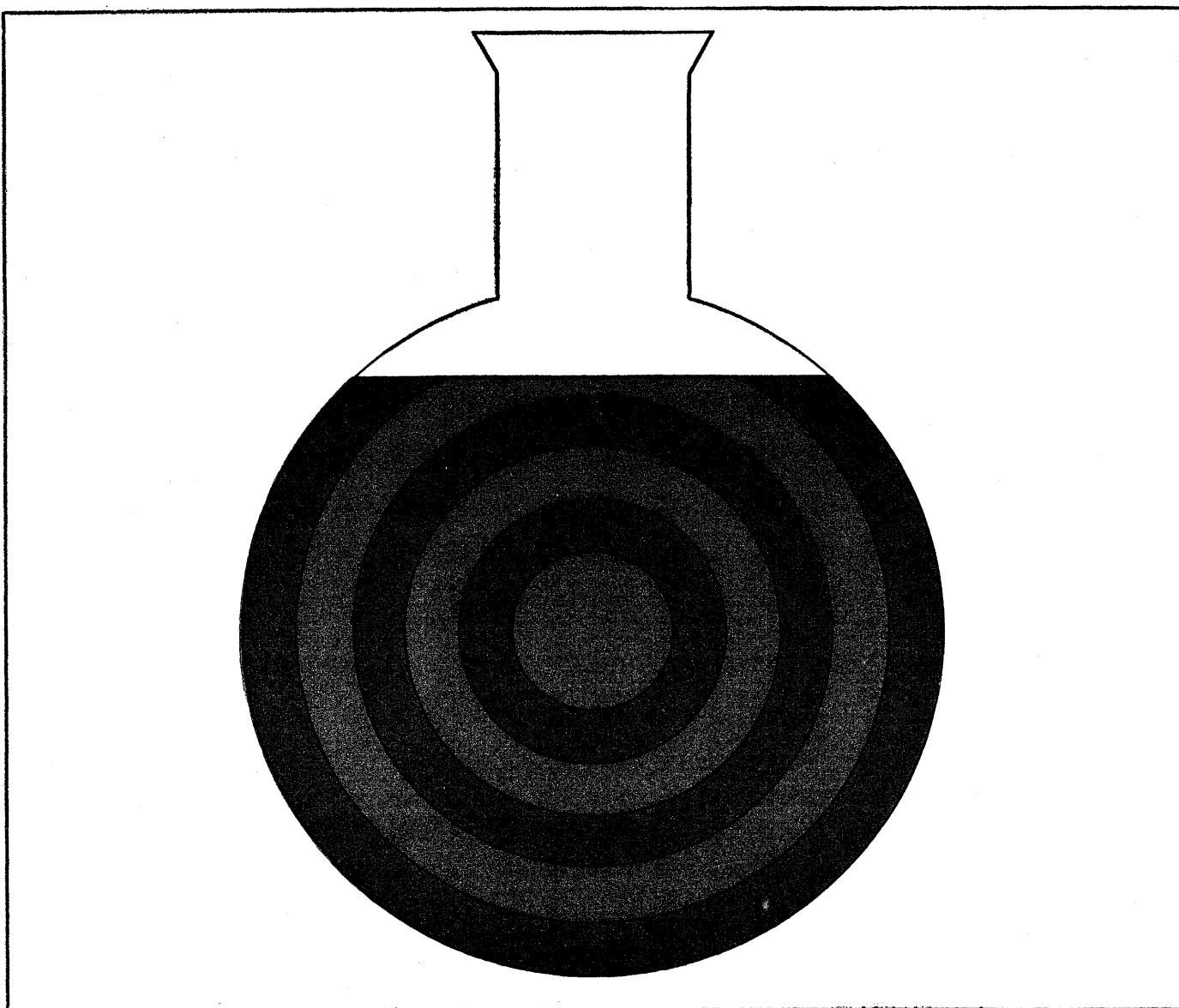
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
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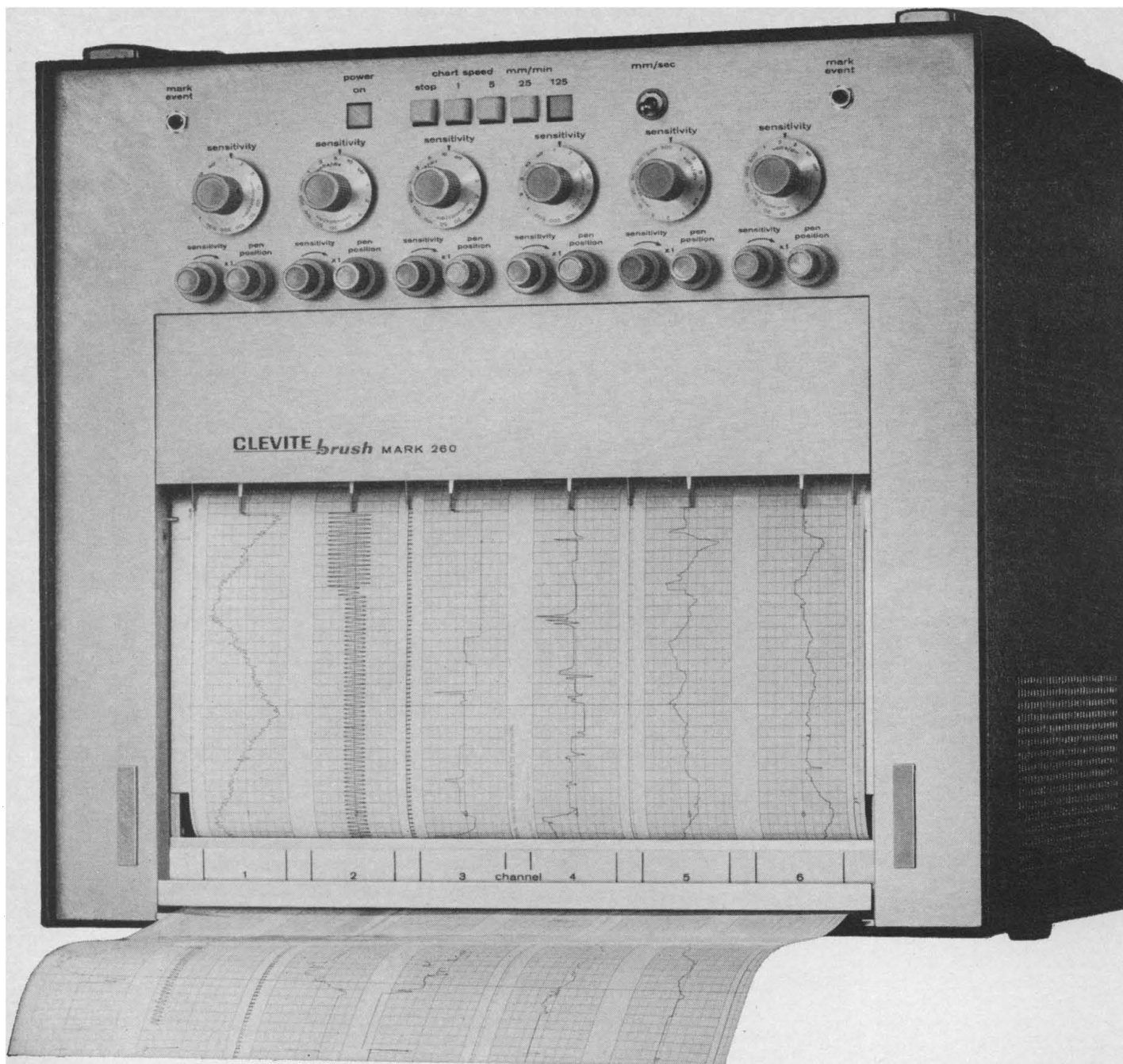
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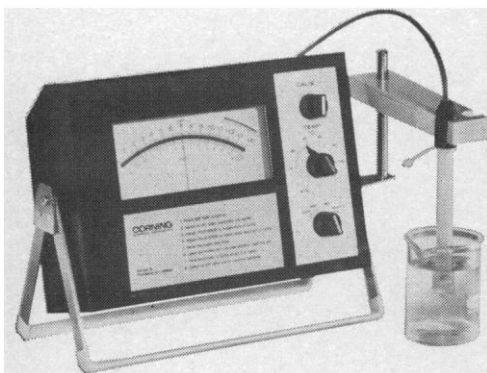
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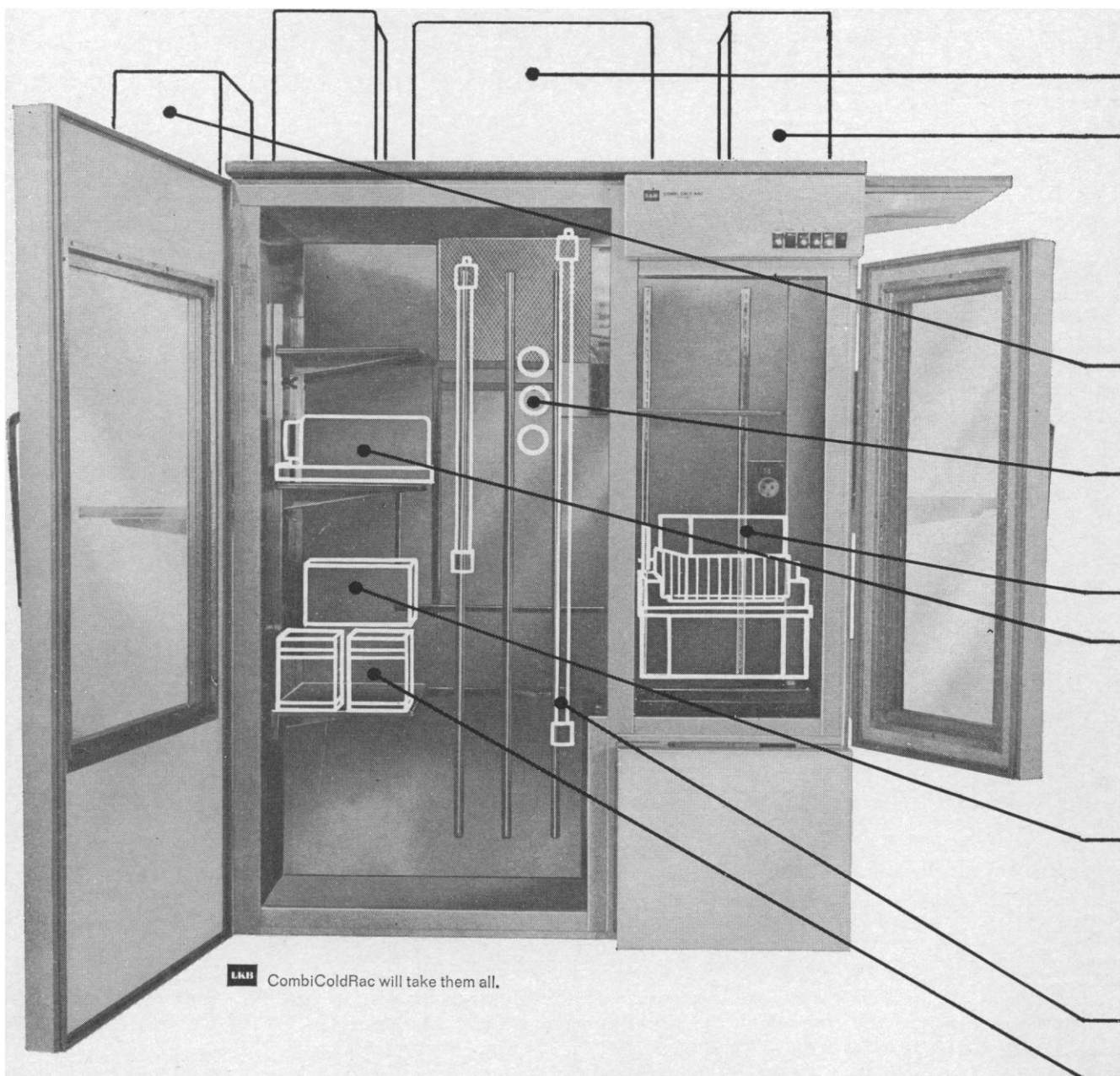
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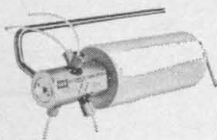


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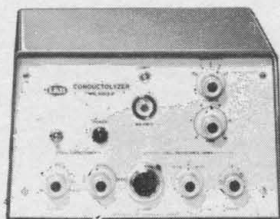




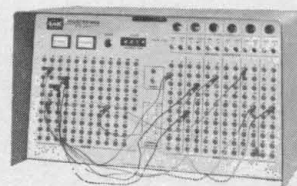
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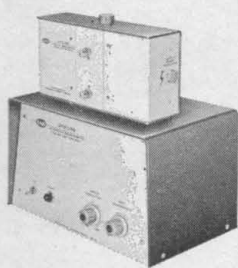
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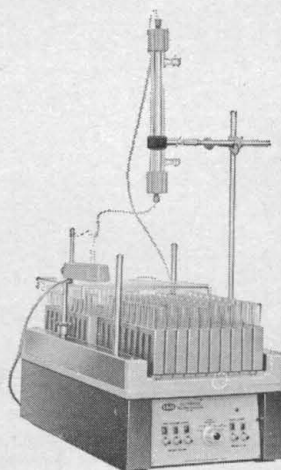
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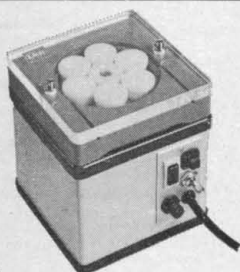
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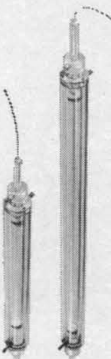
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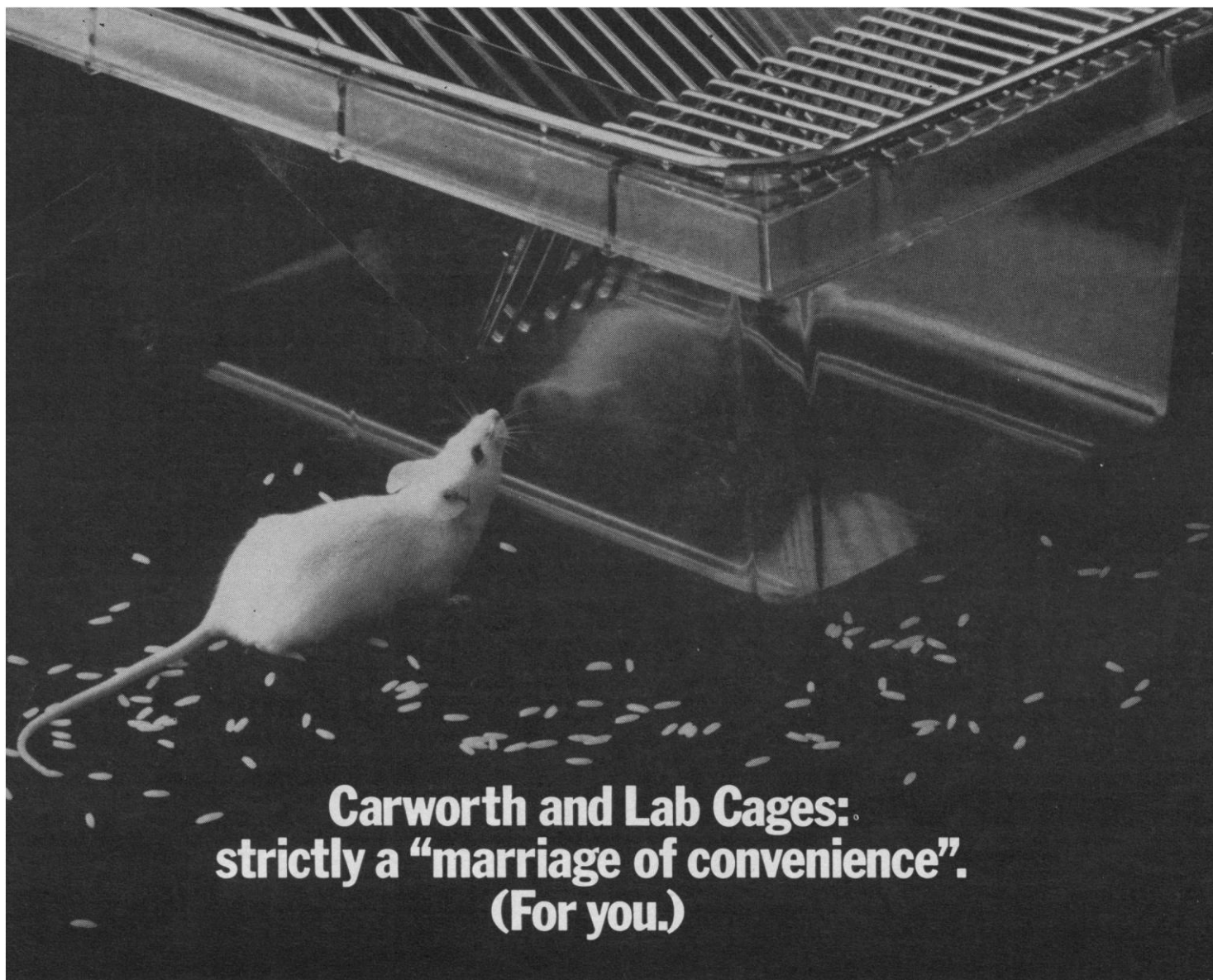
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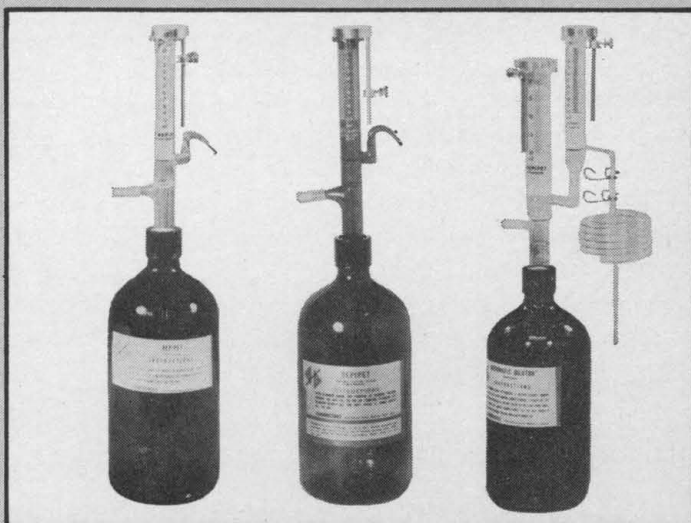
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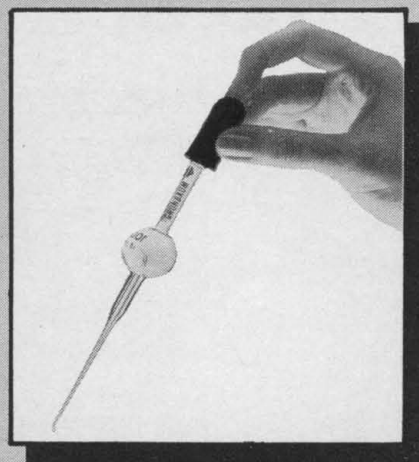
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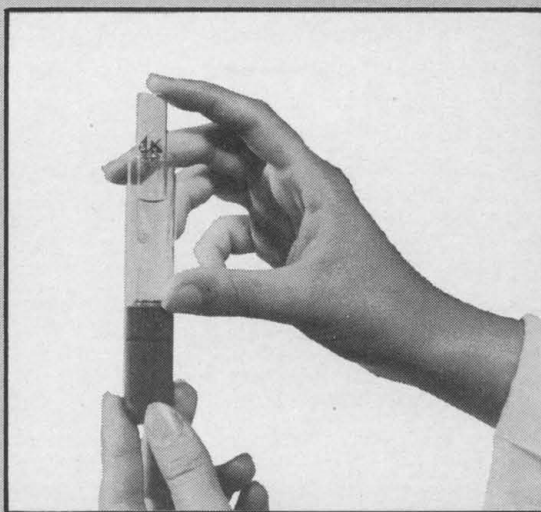
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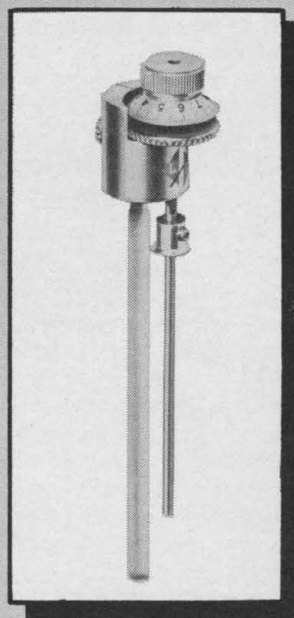
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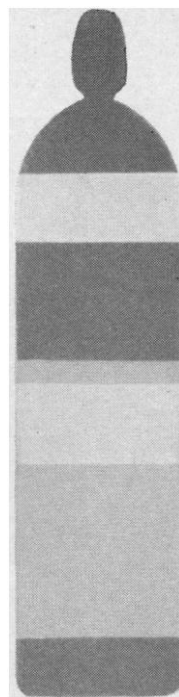
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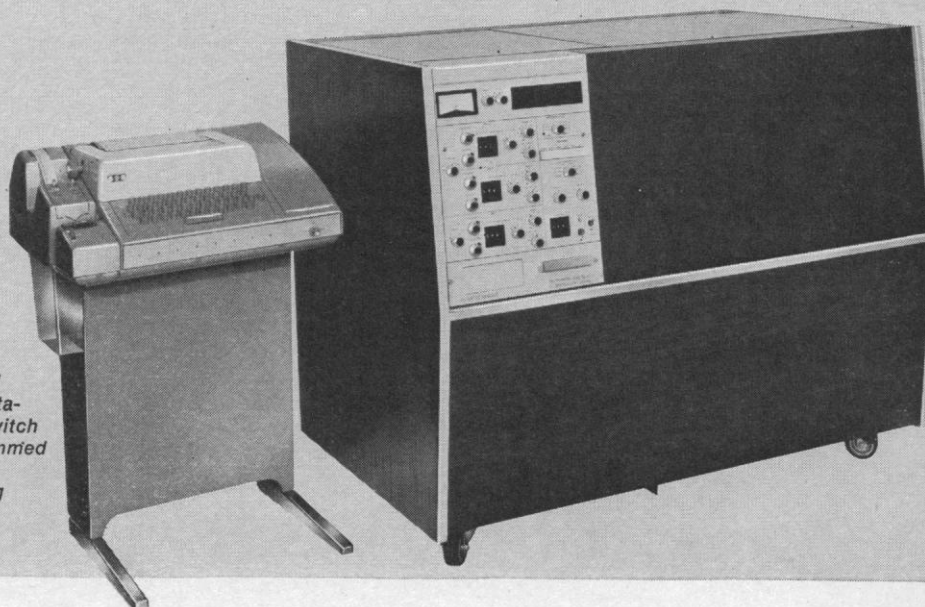
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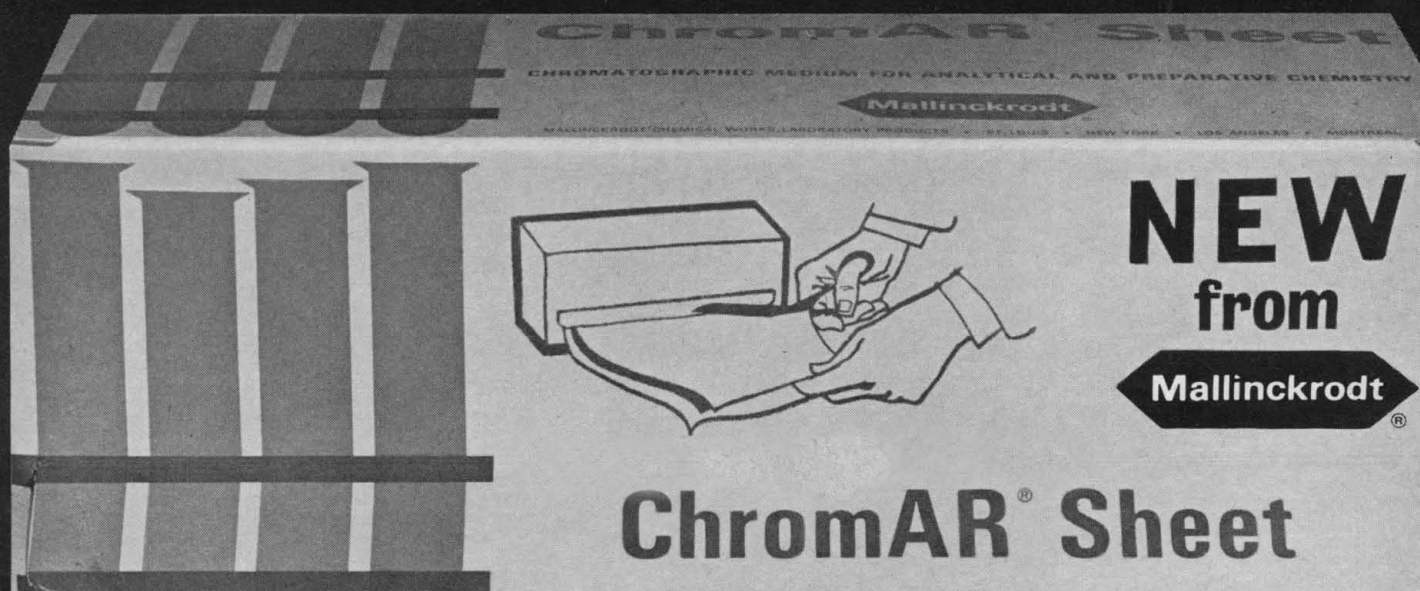
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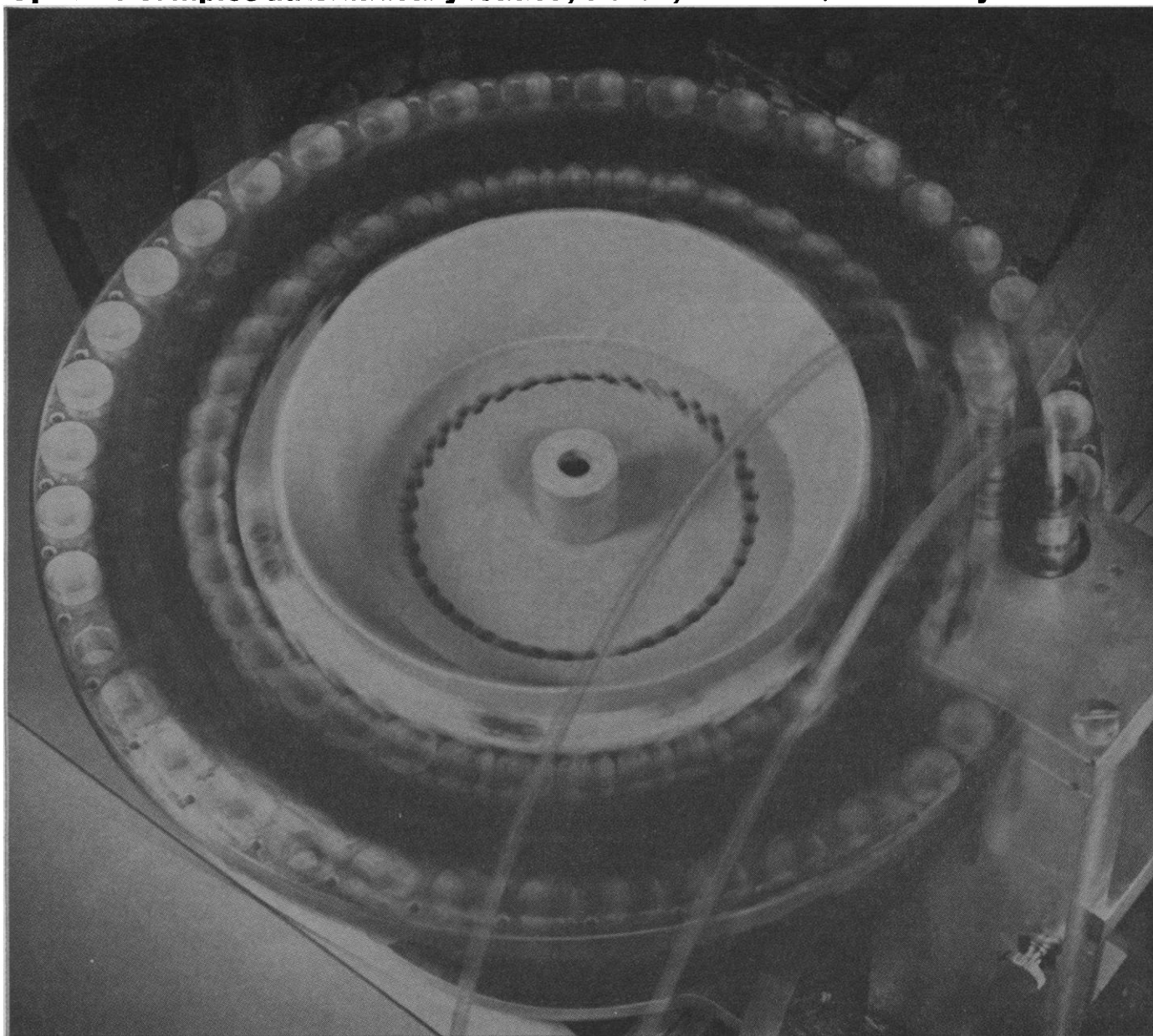
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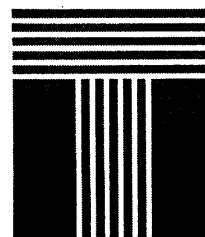
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school level which is a much more difficult art than college teaching is. But to determine one's qualification for teaching by the numbers of education credits one has accumulated is a false standard that should be changed. If the serious shortage of science teachers is to be relieved, ways must be found to make teaching not only attractive but possible for qualified people. I am not optimistic. Certainly the changes will not come from suggestions made outside of the education profession. In spite of millions spent on science curricula, the administrative hurdles remain to thwart teacher recruitment. Anyone now in industry who might be attracted to this call for missionaries had better look carefully before he makes the leap.

DAVID L. KENDALL  
150 Mountain Road,  
West Hartford, Connecticut 06107

### Geography Favors R & D Awards

Papier's remarks (Letters, 9 Feb.) concerning the allotment of federal funds for research and development and the neglect of the East-North-Central states are not a fair appraisal. He notes that his area produces 23.7 percent of the Ph.D.'s awarded in science and engineering and has 19.7 percent of the population and pays 25.6 percent of the federal taxes. Yet it received only 6.4 percent of the federal research and development funds. These funds, however, cannot be awarded on the basis of population, wealth, taxes, or even centers of learning.

The AEC could hardly put its New Mexico and Nevada test sites in the Chicago-Cleveland-Detroit area. I doubt that the test facility for tied-down rockets was located in a rather unsettled area of southwestern Mississippi (where it probably benefits Louisiana more than any other area) merely for love of Mississippians or because of their political influence. In fact, it was selected because the region was relatively unsettled and yet had water courses of considerable size, this combination being rather rare in the United States today. By the same token, the base for rocket take offs was not put in Florida for any particular reason other than the weather and the fact that there is a wide space of open ocean between southern Florida and Africa. With regard to the aeronautical industries and their test facilities, the weather is a mat-

ter of consideration. Therefore, these industries move to the West and Southwest. Additionally, wide open spaces are desirable for obvious reasons, and there are very few of them next to big cities and labor pools except in the Southwest and West.

There are many types of brain drains in the United States if moving from one state to another is to be considered in that category. Mississippi spends a higher percentage of its tax dollar on its public school system than any state in the nation but it still spends less per child enrolled than any other state. As a result, trained teachers leave here in droves every year and when the Mississippi Education Association meets at its annual convention, some of the more populous states set up "recruiting suites" in the same hotel. When I was a boy in the 20's most people in the South who wanted an advanced education went North and few of them returned. Today when I travel out-of-state it is common to run into somebody in high position who hails from Mississippi. We may feel that such things are unfair, but I always remember that the South was taught the hard way that this is one country, come what may. In any case, federal research and development funds cannot be distributed on regional, educational, or population bases without grave inefficiency.

GORDON GUNTER  
Gulf Coast Research Laboratory,  
Ocean Springs, Mississippi 39564

### Are Tobacco Taxes Tyrannical?

Turnipseed has misconstrued the effects of the federal government policies with respect to tobacco (Letters, 23 Feb.). These policies are indeed inane, but the net effect of them is to reduce consumption of tobacco rather than increase it. The agricultural program itself consists mainly of restricting the amount of land upon which tobacco can be raised with the objective (an objective which has been realized) of reducing the total amount of tobacco raised, and hence increasing the price obtained by the farmer. In my opinion this is a foolish policy, but it does not involve much use of "my tax money to support tobacco farmers." In fact, the price of tobacco to the smoker is further raised by very heavy taxes. Assuming that Turnipseed is (like myself) a nonsmoker, it is fairly certain that the benefits he gets from the use

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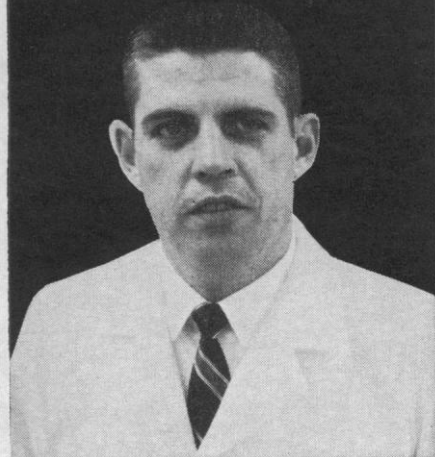
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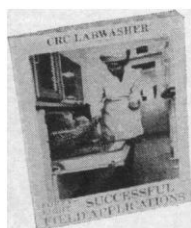
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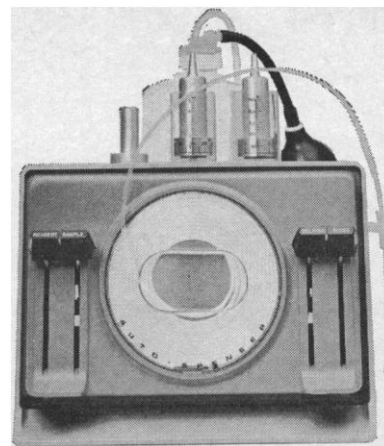
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## Dams Take Planning

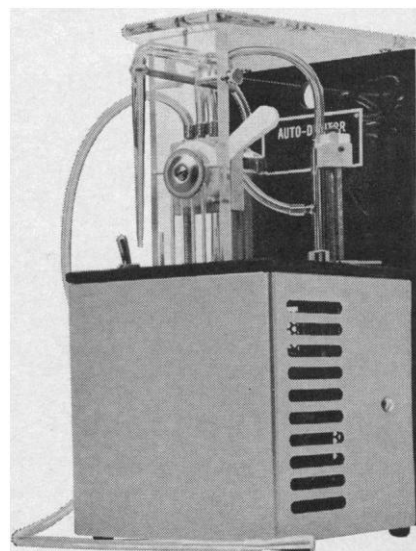
Nelson, in his article entitled "Expansion of Idaho reservoir: Indians, scientists on warpath" (12 Jan., p. 173), refers to the proposed replacement of the existing American Falls dam as suiting "the desires of the Bureau of Reclamation, an agency which needs new work to continue justifying the existence of its highly developed engineering staff" and says that "it may seem especially attractive to the Bureau during the current budget crunch, since the Administration is actively discouraging all new construction projects which are not directly related to Vietnam. If any new dams are to be built in this country, a likely candidate for construction would be a replacement for a defective structure."

The Bureau of Reclamation does not dream up dam constructions simply as makework projects. All our projects are presented to the Congress after review by the Bureau of the Budget and no construction contracts are let until a project is fully authorized and funds are appropriated. This process requires two separate actions by the Congress. Under such circumstances and particularly on controversial projects such as the American Falls proposal, it requires a matter of years to authorize the project and get it underway.

We do not envisage the project as one which should be undertaken during the existing budget emergency. The existing dam is deteriorating, but our engineers are convinced it will last for many more years provided proper precautions are taken in the operation of the structure to insure its safety. This will result in a winter drawdown of the reservoir and loss of water. We feel it must ultimately be replaced. While there is no question that the available water in the Upper



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SCIENCE, VOL. 160

Snake River basin can be better utilized by an enlarged reservoir, this is a matter for the local people, including the Shoshone-Bannock Indians, and ultimately for the Congress to decide.

The time to make such a determination is while it can be fully considered, rather than wait until the pressure of an immediate emergency forces a decision. The Idaho State water board is conducting hearings to determine the facts and aid in reaching a decision.

FLOYD E. DOMINY

*Bureau of Reclamation,  
U.S. Department of the Interior,  
Washington, D.C. 20240*

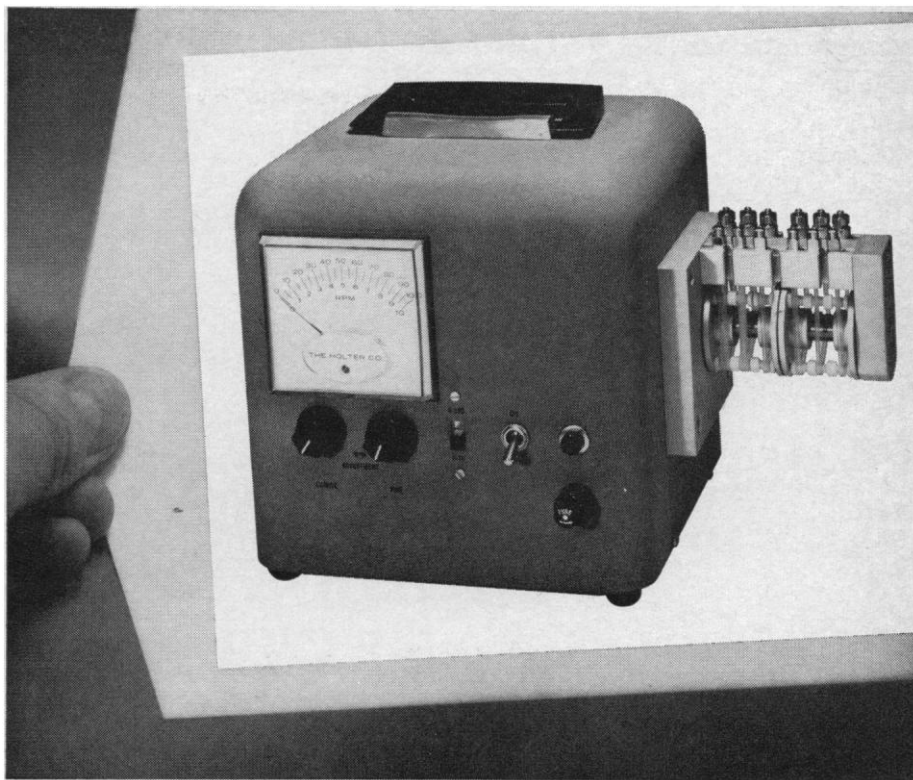
### Predicting Occupational Success

Goslin's statement that "most existing studies show no correlation between test scores and subsequent occupational success (nor is any correlation shown between academic performance as measured by grades and subsequent occupational success)" is likely to be misleading ("Standardized ability tests and testing," 23 Feb., p. 851). Tested intellectual ability and demonstrated academic achievement are potent predictors of adult occupational attainment. For example, IQ-150 boys are, on the average, much more successful occupationally as adults than are IQ-100 boys, and male high school valedictorians tend to succeed better than their lower-quarter classmates. In general, such contrasting groups do not enter the same occupations. How many theoretical physicists had childhood Binet IQ's of 100? How many high school valedictorians become semiskilled workers?

It is *within* occupations that the correlation of test scores and school grades with measures of life success tends to be low, probably to a considerable extent because of movement into different occupations according to ability and educational achievement. Goslin knows this, of course ("A minimum level of intelligence is obviously required for most occupations . . .," p. 853), but it is easy for the reader to lose sight of the considerable value of ability tests and grades during childhood and adolescence for predicting occupational level and, hence, a number of measures of life success *across* occupations.

JULIAN C. STANLEY

*Department of Education and  
Psychology,  
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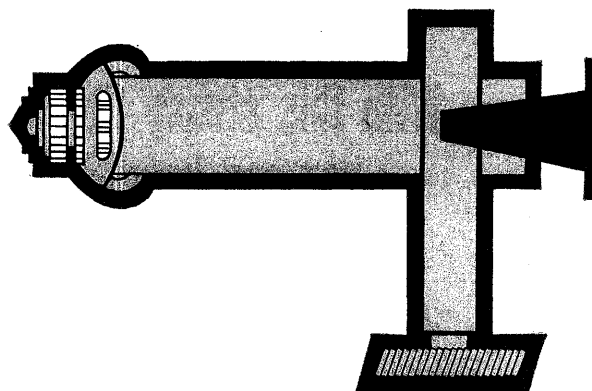
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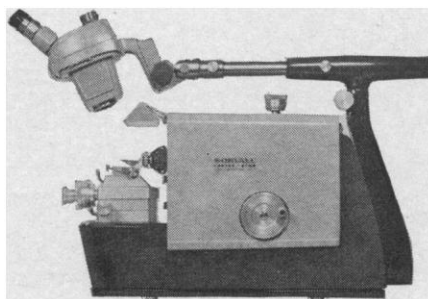
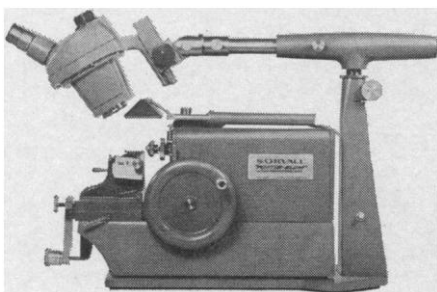
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## The Battle of Hunger

In Africa, Asia, and Latin America spectacular increases in grain production are being achieved by the use of improved seed lines, water control, more fertilizer, and disease and pest controls. Last week, in celebration of the 25th anniversary of the founding of the International Maize and Wheat Improvement Center in Mexico—where much of the new agricultural technology got started—the Rockefeller Foundation gathered together many of the world's experts on food production for a symposium on Strategy for the Conquest of Hunger. Participants from Mexico, India, El Salvador, Thailand, Pakistan, Colombia, Peru, Uganda, and the Philippines told of yields of the new dwarf wheats several times as great as the record yields of earlier varieties; of plans to expand 10,000 acres of Pakistan farmland planted with the miracle rice IR8 in 1967 to a million acres this year; of the eagerness of farmers in many countries to plant the new seeds; and of the attainment of self-sufficiency—this year, next year, or soon—of nations that have long had to import their staple grains.

The symposium celebrated the research successes of agronomists and plant geneticists who have made possible a stepwise increase in grain production. Participants from other lands also made the symposium a tribute to the leadership of the Rockefeller Foundation in winning this battle against hunger.

A victory can be celebrated, but the campaign must continue. For now arise social and economic and management problems on which substantial progress must be made within a handful of years. How is the more abundant yield to be marketed and distributed? How can it most effectively be made to increase consumption? What will happen to processors and small-scale industries geared to the older agriculture? Will the ability to raise all the grain a country needs on half the former acres turn other sections of that country into depressed Appalachias? Unless these problems are solved there will still be rural poverty and starvation in the cities.

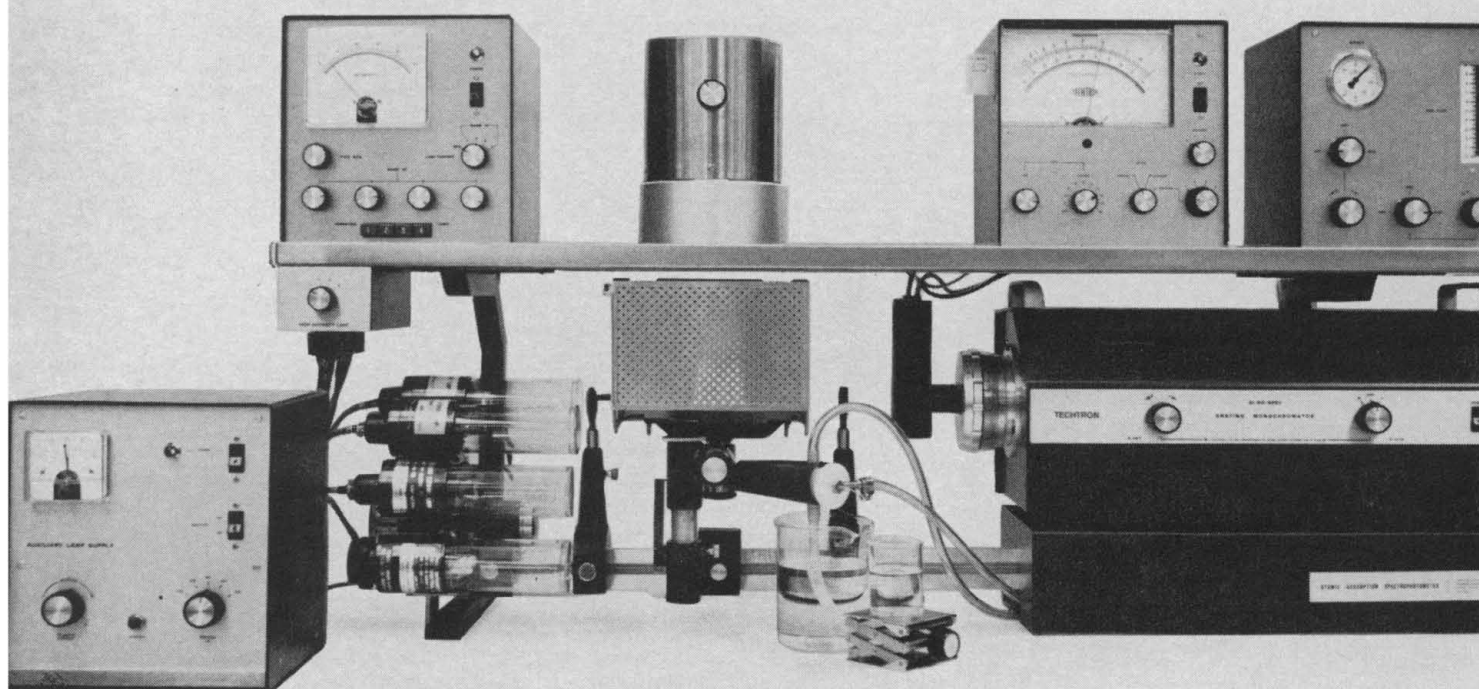
If these problems can be handled, there is now opportunity for economic advance and there is hope for millions who last year or the year before feared starvation. There is opportunity, but not assurance. The specter of Malthus was never absent from the symposium. In the long view the greatest benefit of the agricultural achievements is additional time in which to stabilize populations. At current growth rates, the population of Latin America will double in 24 years. Since India attained independence in 1947, its population has increased by as many people as now live in all of North America. Over Africa, Asia, and Latin America as a whole, the rate of increase is greater now than in the 1950's.

The agricultural improvements offer a little more time in which to decide how many people the earth can support at reasonable standards of comfort and decency. But only a little more time is available. One speaker estimated that within 20 to 25 years we would breed ourselves into starvation unless population growth is curbed.

The agronomists have given us a revolution in crop production. That revolution must be followed quickly by a revolution in population control. There is not time for any slower approach.—DAEL WOLFLE



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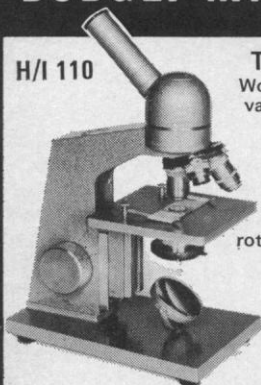
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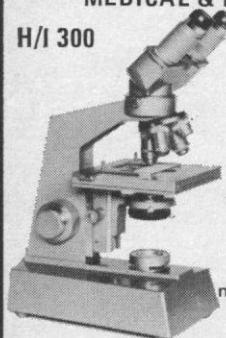


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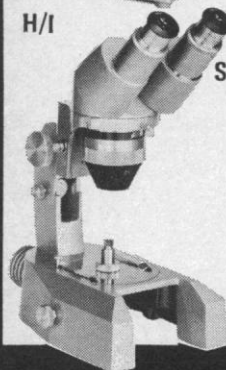
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22-10. **Laboratory Methods in Medical Parasitology**, Atlanta, Ga. (U.S. Public Health Service, National Communicable Disease Center, Atlanta 30333)

22-24. American Assoc. of **Physical Anthropologists** and Soc. for the Study of **Human Biology**, Detroit, Mich. (G. W. Lasker, Dept. of Anatomy, Wayne State Univ., Detroit 48207)

23-24. **Relay Conference**, 16th annual, Stillwater, Okla. (D. R. Wilson, School of Electrical Engineering, Stillwater 74074)

23-25. **American Power Conf.**, 30th annual, Chicago, Ill. (Director, American Power Conf., Illinois Inst. of Technology, Chicago 60616)

23-25. **Institute of Electrical and Electronics Engineers**, New Orleans, La. (R. M. Emberson, 345 E. 47 St., New York 10017)

24-26. **Space Age Facilities**, 2nd conf., Los Angeles, Calif. (W. H. Wisley, American Soc. of Civil Engineers, 345 E. 47 St., New York 10017)

25. American Soc. for **Head and Neck Surgery**, Hollywood, Fla. (E. W. Cocke, Jr., 899 Madison Ave., Memphis, Tenn. 38103)

25-26. **American Geriatrics Soc.**, New Orleans, La. (E. Henderson, Executive Director, 10 Columbus Circle, New York 10019)

25-27. **American Cleft Palate Assoc.**, Miami Beach, Fla. (D. R. Bzoch, Dept. of Communicative Disorders, College of Health Related Professions, Univ. of Florida, Gainesville 32603)

25-27. **Cineradiology**, 6th symp., Rochester, N.Y. (R. Gramiak, Diagnostic Radiology, Univ. of Rochester Medical Center, Rochester 14620)

25-27. **Molecular Basis of Odor**, San Francisco, Calif. (Letters and Science Extension, Univ. of California, 2223 Fulton St., Berkeley 94720)

25-27. **American Acad. of Physical Medicine and Rehabilitation**, Chicago, Ill. (C. C. Herold, 30 N. Michigan Ave., Chicago 60602)

25-27. **American Assoc. of University Professors**, Washington, D.C. (B. H. Davis, AAUP, 1785 Massachusetts Ave., NW, Washington, D.C. 20036)

25-27. **Wildflower Pilgrimage**, 18th annual, Gatlinburg, Tenn. (Dept. of Botany, Univ. of Tennessee, Knoxville 37916)

26-27. **Applications of Lasers to Photography and Information Handling**, New York, N.Y. (K. T. Lassiter, Eastman Kodak Co., Dept. 942, Rochester, N.Y. 14650)

26-27. **Biochemical Co-evolution**, 29th annual biology colloquium, Corvallis, Ore. (W. C. Denison, Box 689, Corvallis 97330)

26-27. **Comparative Endocrinology**, northeast regional mtg., Boston, Mass. (N. B. Clark, Biological Sciences, Univ. of Connecticut, College of Liberal Arts and Sciences, Storrs 06268)

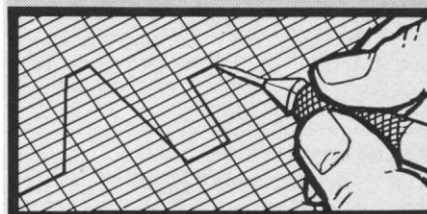
26-27. **Indiana Acad. of Science**, Wabash. (J. R. Gammon, Dept. of Zoology, DePauw Univ., Greencastle, Ind. 46135)

26-28. **Wisconsin Acad. of Sciences, Arts and Letters**, Eau Claire. (A. Suppan, School of Fine Arts, Univ. of Wisconsin-Milwaukee, Milwaukee)

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26-30. **Industrial Gas Cleaning Inst.**, 9th annual meeting, Point Clear, Ala. (H. R. Herington, Executive Secretary, Industrial Gas Cleaning Inst, Inc., Box 448, Rye, N.Y. 10580)

27. **American Medical Electroencephalographic Assoc.**, Chicago, Ill. (M. L. Towler, Secretary-Treasurer, 200 University Boulevard, Galveston, Tex. 77550)

27-28. **Ceramic Engineers**, Chicago, Ill. (F. Reid, American Ceramic Soc., 4055 N. High St., Columbus, Ohio)

27-1. **American Acad. of Facial Plastic and Reconstructive Surgery**, Hollywood Beach, Fla. (J. R. Anderson, 1111 Tulane Ave., New Orleans, La. 70112)

28. **American Assoc. of Electromyography and Electrodiagnosis**, 15th annual, Chicago, Ill. (E. W. Johnson, Secretary-Treasurer, 410 W. 10, Columbus, Ohio 43210)

28-29. **American Laryngological Assoc.**, Hollywood, Calif. (L. G. Richards, 12 Clovelly Road, Wellesley Hills, Mass.)

28-1. **American Assoc. of Plastic Surgeons**, Houston, Tex. (C. W. Monroe, 715 Lake St., Oak Park, Ill. 60301)

28-1. **Fluid Controls Inst., Inc.**, spring meeting, Hot Springs, Va. (The Institute, P.O. Box 1485, Pompano Beach, Fla. 33061)

29-30. **Combustion Inst.**, western states section spring mtg., Pasadena, Calif. (G. S. Bahn, 16902 Bollinger Drive, Pacific Palisades, Calif. 90272)

29-30. **Environmental Health Problems**, 5th congr., Chicago, Ill. (AMA Dept. of Environmental Health, 535 N. Dearborn St., Chicago 60610)

29-30. **Fiber Optics Seminar**, Baltimore, Md. (Society of Photo-optical Instrumentation Engineers, 1716 S. Catalina Ave., P.O. Box 288, Redondo Beach, Calif. 90277)

29-1. **Association for Research Ophthalmology**, Tampa, Fla. (H. E. Kaufman, Dept. of Ophthalmology, Univ. of Florida College of Medicine, Gainesville 32601)

29-1. **Dose Rate in Mammalian Radiation Biology**, symp., Oak Ridge, Tenn. (D. G. Brown, UT-AEC Agricultural Research Lab., 1299 Bethel Valley Rd., Oak Ridge 37830)

29-1. **Institute of Environmental Sciences**, annual technical mtg. and equipment exposition, St. Louis, Mo. (H. F. Sander, 940 E. Northwest Highway, Mount Prospect, Ill.)


29-1. **Plant Engineering and Maintenance Conf.**, Kansas City, Mo. (A. B. Conlin, Jr., Meetings Manager, 345 E. 47 St., New York 10017)

29-2. **American Acad. of Pediatrics**, New Orleans, La. (E. H. Christopherson, Executive Secretary, 1801 Hinman Ave., Evanston, Ill. 60204)

29-2. **Audio Engineering Soc., Inc.**, 34th conv., Los Angeles, Calif. (D. B. Davis, Altec Lansing, 1515 S. Manchester Ave., Anaheim, Calif. 92803)

29-3. **Aeronautic Mtg. and Production Forum**, New York, N.Y. (W. I. Marble, Manager, Meetings Division, 485 Lexington Ave., New York 10017)

29-3. **Casting Congr. and Exposition**, Cleveland, Ohio. (American Foundrymen's Soc., Golf and Wolf Rds., Des Plaines, Ill. 60016)



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30-2. Institute of Management Sciences, American mtg., San Francisco, Calif. (R. Van Horn, RAND Corp., 1700 Main St., Santa Monica, Calif.)

30-2. Spring Joint Computer Conf., Atlantic City, N.J. (H. G. Asmus, Executive Secretary, 345 E. 47 St., New York 10017)

30-3. American College Health Assoc., Minneapolis, Minn. (L. D. Stauffer, Executive Secretary, Box 9117, Univ. of Miami Branch, Coral Gables, Fla. 33124)

30-4. American Assoc. on Mental Deficiency, Boston, Mass. (J. J. Noone, Executive Director, 5201 Connecticut Ave., NW, Washington, D.C. 20015)

### May

1-2. American Pediatric Soc., Atlantic City, N.J. (C. D. Cook, 333 Cedar St., New Haven, Conn.)

1-3. Operations Research Soc. of America, 33rd natl., San Francisco, Calif. (F. L. Weldon, 3410 Kettering Ct., San Mateo, Calif.)

2-3. American Soc. of Naval Engineers, Washington, D.C. (The Society, Suite 507, 1012 14th St., NW, Washington, D.C. 20005)

2-4. American College of Clinical Pharmacology and Chemotherapy, 5th annual, Atlantic City, N.J. (Secretary, American College of Clinical Pharmacology and Chemotherapy, 230 North Broad St., Philadelphia, Pa. 19102)

2-4. Prevention in Cardiology, Rochester, Minn. (H. Blackburn, Stadium Gate 27, Univ. of Minnesota, Minneapolis 55455)

3-4. Physical Medicine and Rehabilitation, Northwest Assoc., Palo Alto, Calif. (J. C. Montero, Div. of Rehabilitation Medicine, Stanford Univ. School of Medicine, Palo Alto 94394)

3-4. Society for Pediatric Research, Atlantic City, N.J. (Secretary, The Society, % Dept. of Pediatrics, J. H. Miller Health Center, Univ. of Florida, Gainesville, Fla.)

3-5. Parts, Materials, and Packaging Technical Conf., Washington, D.C. (W. Hepner, Electronic Industries Assoc., 2001 Eye St., NW, Washington, D.C. 20006)

4. American Society for Clinical Nutrition, Atlantic City, N.J. (A. B. Eisenstein, Secretary-Treasurer, The Society, 818 S. Meramec Ave., St. Louis, Mo. 63105)

4-5. Economics and Evaluation Symp., Dallas, Tex. (J. A. Chrichton, 1100 Vaughan Bldg., Dallas 75201)

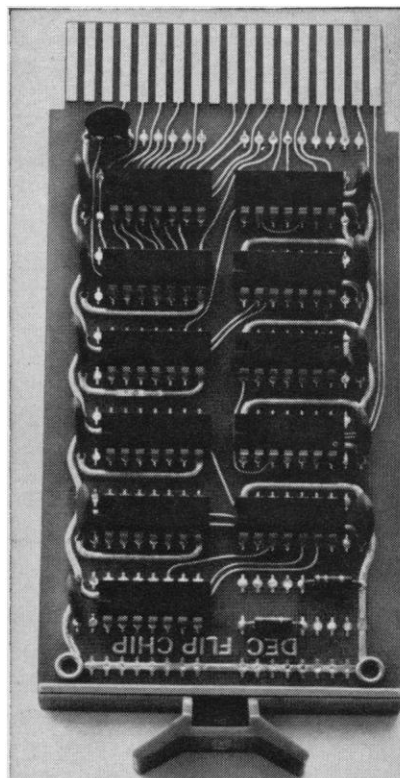
4-9. American Soc. of Planning Officials, natl. planning conf., San Francisco, Calif. (The Society, 1313 E. 60 St., Chicago, Ill. 60637)

5. American Federation for Clinical Research, annual mtg., Atlantic City, N.J. (J. E. Bryan, Executive Secretary, AFRC, 2000 P St., NW, Washington, D.C. 20036)

5-7. American Assoc. of State Geologists, 60th annual, Tuscaloosa, Ala. (T. A. Simpson, Assistant State Geologist, Geological Survey of Alabama, P.O. Drawer O, University 35468)

5-8. American Inst. of Chemical Engineers, 64th natl., Tampa, Fla. (R. W. Fahien, Univ. of Florida, Gainesville)

5-8. Industrial Research Inst., Boca Raton, Fla. (G. W. McBride, Secretary-Treasurer, The Institute, 100 Park Ave., New York 10017)



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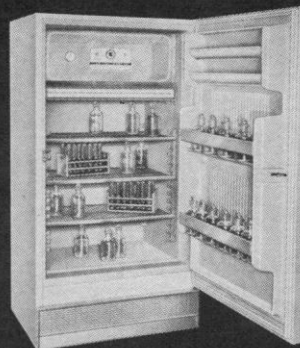
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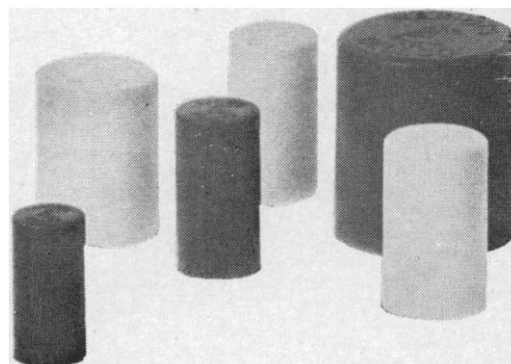
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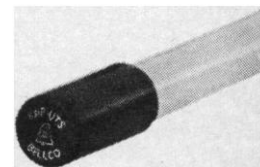
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5-8. American Soc. of **Lubrication Engineers**, annual mtg., Cleveland, Ohio. (D. B. Sanberg, Executive Secretary, The Society, 838 Busse Highway, Park Ridge, Ill. 60068)

5-8. American Soc. of **Maxillofacial Surgeons**, annual mtg., Philadelphia, Pa. (D. Goulian, Jr., Executive Secretary, The Society, 116 E. 68 St., New York 10021)

5-9. American Soc. of **Brewing Chemists**, annual mtg., St. Paul, Minn. (B. A. Burkhart, Executive Secretary, The Society, 501 N. Walnut St., Madison, Wis. 53705)

5-9. American Soc. for **Microbiology**, 68th annual, Detroit, Mich. (Executive Secretary, The Society, 115 Huron View Blvd., Ann Arbor, Mich.)

5-9. **Electrochemical Soc.**, Inc., 133rd natl., Boston, Mass. (The Society, 30 E. 42 St., New York 10017)

5-10. American **Pharmaceutical Assoc.**, Miami Beach, Fla. (G. B. Griffenhagen, Director, Division of Communications, The Association, 2215 Constitution Ave., NW, Washington, D.C. 20037)

5-10. Society of **Plastics Engineers**, 26th annual technical conf., New York, N.Y. (R. D. Forger, Director of Memorial Activities, 65 Prospect St., Stamford, Conn. 06902)

6. **Clinical Investigation**, annual mtg., Atlantic City, N.J. (D. S. Fredrickson, National Heart Inst., Bethesda, Md. 20014)

6-7. **Human Factors in Electronics**, symp., Washington, D.C. (R. M. Emberson, Inst. of Electrical and Electronics Engineers, 345 E. 47 St., New York 10017)

6-7. Institute on **Lake Superior Geology**,

14th annual, Superior, Wis. (A. B. Dickas, Dept. of Geology, Wisconsin State Univ., Superior)

6-8. American **Public Power Assoc.**, annual conf., Seattle, Wash. (The Association, Suite 830, 919 18th St., NW, Washington, D.C. 20006)

6-8. American Soc. for **Quality Control** 22nd annual technical conf. and exhibit, Philadelphia, Pa. (R. W. Shearman, The Society, 161 W. Wisconsin Ave., Milwaukee, Wis.)

6-8. Cine Angiographic Techniques in **Cardiovascular Pulmonary Diseases**, Cleveland, Ohio. (H. L. Kruse, Executive Assistant, American College of Chest Physicians, 112 E. Chestnut St., Chicago, Ill.)

6-8. **Coding Theory**, symp., Madison, Wis. (H. B. Mann, Mathematics Research Center, Univ. of Wisconsin, Madison 53706)

6-9. **Aerospace Medical Assoc.**, 39th annual science mtg., Miami Beach, Fla. (W. J. Kennard, Washington National Airport, Washington, D.C. 20001)

6-9. **Aerospace Meteorology**, 3rd conf., New Orleans, La. (K. C. Spengler, American Meteorological Soc., 45 Beacon St., Boston, Mass. 02108)

6-9. American College of **Obstetricians and Gynecologists**, Chicago, Ill. (M. Newton, 79 W. Monroe St., Chicago 60603)

6-9. **Civil Aviation Medical Assoc.**, annual mtg., Miami Beach, Fla. (W. Gillespie, The Association, 3720 Washington St., St. Louis, Mo. 63108)

6-9. American Soc. of **Mechanical Engineers**, Fluids Engineering Div., Philadel-

phia, Pa. (Meetings Manager, The Society, 345 E. 47 St., New York 10017)

6-9. Soc. of **Aeronautical Weight Engineers**, natl. conf., New Orleans, La. (N. J. Carraway, Box 60024, Terminal Annex, Los Angeles, Calif. 90054)

7-8. Association of **American Physicians**, annual mtg., Atlantic City, N.J. (E. Stead, Jr., Executive Secretary, The Association, Duke Hospital, Durham, N.C.)

7-9. **Industrial and Commercial Power Systems**, technical conf., St. Louis, Mo. (Inst. of Electrical and Electronics Engineers, Office of the Technical Activities Board, 345 E. 47 St., New York 10017)

7-9. **Purdue Industrial Waste Conf.**, Lafayette, Ind. (D. E. Bloodgood, Civil Engineering Bldg., Purdue Univ., Lafayette 47907)

7-9. Soc. of **Aerospace Material and Process Engineers**, 13th natl. symp., Chicago, Ill. (P. Fina, 222 Scottswood Drive, Riverside, Ill.)

7-10. Society of **Experimental Stress Analysis**, spring mtg., Albany, N.Y. (B. E. Rossi, Executive Secretary, 21 Bridge Sq., Westport, Conn. 06880)

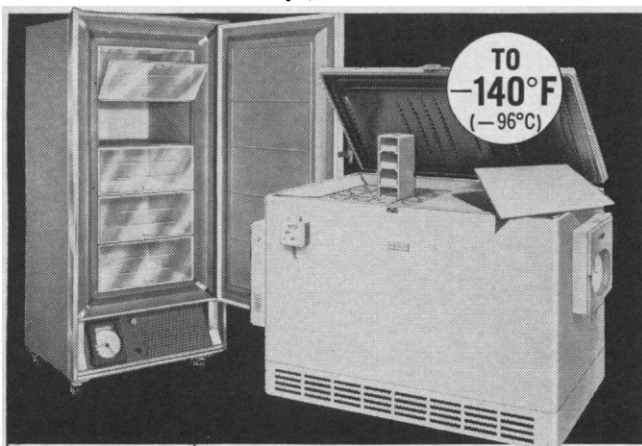
8-10. American Assoc. of **Genitourinary Surgeons**, annual mtg., Ponte Vedra, Fla. (H. M. Spence, Executive Secretary, The Association, 4105 Live Oak St., Dallas, Tex. 75221)

8-10. American **Helicopter Soc.**, 24th annual natl. forum, Washington, D.C. (H. M. Lounsbury, Executive Secretary, 141 E. 44 St., New York 10017)

8-10. **Electronic Components**, technical conf., Washington, D.C. (W. Hepner, Elec-

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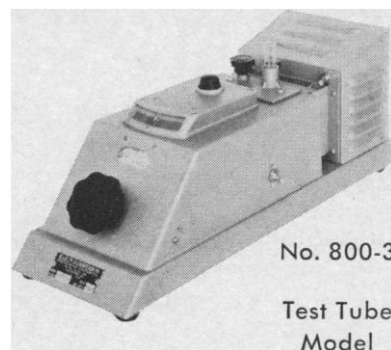
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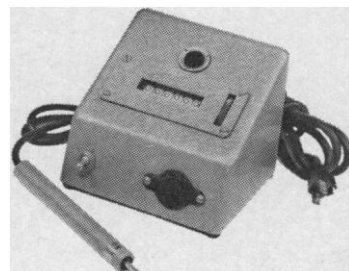
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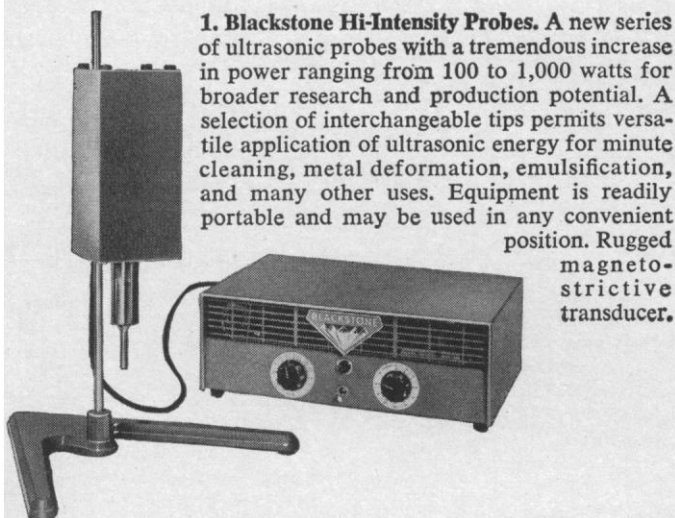
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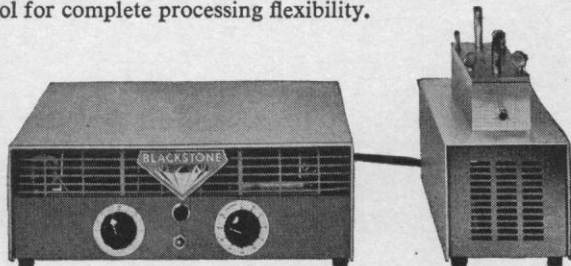


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9. Recent Significant Developments in  
**Medicine and Surgery**, John F. Kennedy  
symp., Boston, Mass. (E. G. Toomey,  
Concord Medical Center, Concord, Mass.)

9-10. American Chemical Soc., central  
regional, Akron, Ohio. (G. Brown, Dept.  
of Chemistry, Kent State Univ., Kent,  
Ohio)

9-10. The Child with Heart Disease,  
Richmond, Va. (W. D. Nelligan, Executive  
Director, American College of Cardiology,  
9650 Rockville Pike, Washington, D.C.  
20014)

9-11. Anesthesiology, midwest conf.,  
Chicago, Ill. (A. P. Winnie, Illinois Soc.  
of Anesthesiologists, 1825 W. Harrison  
St., Chicago 60612)

9-11. Society of American Archeology,  
33rd annual, Sante Fe, N.M. (Museum of  
New Mexico, P.O. Box 2087, Sante Fe  
87501)

9-11. American Inst. of Industrial En-  
gineers, Tampa, Fla. (R. C. Hutchinson,  
IMC, Box 867, Bartow, Fla.)

10-11. Arizona Acad. of Science, Flag-  
staff. (K. E. Bean, Faculty Box 4058,  
Northern Arizona Univ., Flagstaff 86001)

10-11. Association of University Radiol-  
ogists, Columbus, Ohio. (S. Rogoff, Dept.  
of Radiology, Univ. of Rochester Medical  
School, Rochester, N.Y. 14620)

10-13. American Psychoanalytic Assoc.,  
Boston, Mass. (H. Fischer, The Associa-  
tion, 1 E. 57 St., New York 10022)

11. Kroeber Anthropological Soc., 12th  
annual, Berkeley, Calif. (A. J. Almquist,  
Dept. of Anthropology, Univ. of Cali-  
fornia, Berkeley 94720)

12-16. American Assoc. of Orthodon-  
tists, San Francisco, Calif. (J. E. Brophy,  
Executive Secretary, 7477 Delmar Blvd.,  
St. Louis, Mo. 63130)

12-16. Technical Assoc. of the Pulp and  
Paper Industry, 19th coating conf., Miami  
Beach, Fla. (D. Most, Box 542, Marble-  
head, Mass.)

12-17. Mass Spectrometry, 16th annual  
conf., Pittsburgh, Pa. (J. L. Franklin,  
Dept. of Chemistry, Rice Univ., Houston,  
Tex. 77001)

13-15. Aerospace Electronics, natl.  
conf., Dayton, Ohio. (Inst. of Electrical  
and Electronics Engineers, Dayton Office,  
1220 E. Third St., Dayton 45402)

13-15. American Astronomical Soc.,  
14th annual, Dedham, Mass. (J. Crone,  
Northrop-Nortronics, 100 Morse St., Nor-  
wood, Mass.)

13-15. Power Instrumentation Symp.,  
11th natl., Chicago, Ill. (R. K. LaCrosse,  
Sargent and Lundy, 140 S. Dearborn St.,  
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13-16. Corporate Aircraft Safety Semi-  
nar, Chicago, Ill. (C. Etnyre, Director of  
Special Affairs, Flight Safety Foundation,  
468 Park Ave., S., New York 10016)

13-17. American College of Psychia-  
trists, Boston, Mass. (J. M. Myers, Ameri-  
can College of Psychiatrists, 111 N. 49 St.,  
Philadelphia, Pa. 10139)

13-17. American Industrial Hygiene,  
conf., St. Louis, Mo. (G. D. Clayton, Ex-  
ecutive Secretary, The Association, 14125  
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13-17. **Environmental Engineering Conf.**, Chattanooga, Tenn. (W. H. Wisely, American Soc. of Civil Engineers, 345 E. 47 St., New York 10017)

13-17. **Soc. for Applied Spectroscopy**, 7th natl., Chicago, Ill. (J. W. Burroughs, % Borg-Warner Corp., R. C. Ingersoll Research Center, Wolf and Algonquin Rds., Des Plaines, Ill. 60018)

14. **Heart Sounds and Murmurs**, Loma Linda, Calif. (W. D. Nelligan, American College of Cardiology, 9650 Rockville Pike, Washington, D.C. 20014)

14-16. **Power Sources Conf.**, 22nd annual, Atlantic City, N.J. (H. W. Schwartz, Power Sources Div., AMSEL-KL-PT, Fort Monmouth, N.J. 07703)

14-18. **American Assoc. for Contamination Control**, 7th annual technical mtg. and exhibit, Chicago, Ill. (W. T. Maloney, Executive Secretary, Suite 620, 6 Beacon St., Boston, Mass. 48201)

14-18. **Armed Forces Communications and Electronics Assoc.**, 22nd annual conv., Washington, D.C. (W. J. Baird and J. H. Shreve, The Association, 1725 Eye St., NW, Washington, D.C. 20006)

15. **American Soc. for Gastrointestinal Endoscopy**, annual mtg., Philadelphia, Pa. (B. H. Sullivan, Jr., The Society, 2020 E. 93 Street, Cleveland, Ohio 44106)

15-16. **American Urological Assoc.**, Miami Beach, Fla. (W. P. Didusch, Executive Secretary, The Association, 1120 N. Charles St., Baltimore, Md.)

15-17. **American Petroleum Inst.**, Div. of Refining, 33rd midyear mtg., Philadelphia, Pa. (R. R. Wright, The Institute, 1271 Ave. of the Americas, New York 10020)

15-17. **Pulp and Paper**, 14th conf., Milwaukee, Wis. (Inst. of Electrical and Electronics Engineers, Office of the Technical Activities Board, 345 E. 47 St., New York 10017)

15-17. **Treatment of Myocardial Infarction**, Atlanta, Ga. (W. D. Nelligan, American College of Cardiology, 9650 Rockville Pike, Washington, D.C. 20014)

15-18. **American Gastroenterological Assoc.**, annual mtg., Philadelphia, Pa. (H. D. Janowitz, % Mt. Sinai Hospital, 11 E. 100 St., New York 10029)

15-18. **Neurosurgical Soc. of America**, annual mtg., San Francisco, Calif. (C. H. Davis, Jr., Bowman Gray School of Medicine, Winston-Salem, N.C. 27103)

16-17. **Metallurgical Soc.**, 22nd New England regional conf., Hartford, Conn. (J. V. Richard, The Society, 345 E. 47 St., New York 10017)

16-17. **Southern Textile Research Conf.**, Hilton Head Island, S.C. (E. E. St. Louis, % Astro Chemical Corp., 1613 E. North St., Greenville, S.C. 29607)

16-19. **Association of Clinical Scientists**, spring mtg., Little Rock, Ark. (R. P. MacFate, The Association, 300 N. State St., Chicago, Ill. 60610)

17-19. **American Osteopathic Acad. of Orthopedics**, instructional courses, Detroit, Mich. (J. P. Leonard, Secretary, The Academy, 2673 W. Grand Blvd., Detroit 48208)

19-22. **American Thoracic Soc./National Tuberculosis Assoc.**, joint mtg., Houston, Tex. (S. Wicker, National Tuberculosis Assoc., 1740 Broadway, New York 10019)

19-22. **Analysis Instrumentation Symp.**, 14th natl., Philadelphia, Pa. (R. G. Krueger, Leeds and Northrup Co., 4901 Stenton Ave., Philadelphia 19144)

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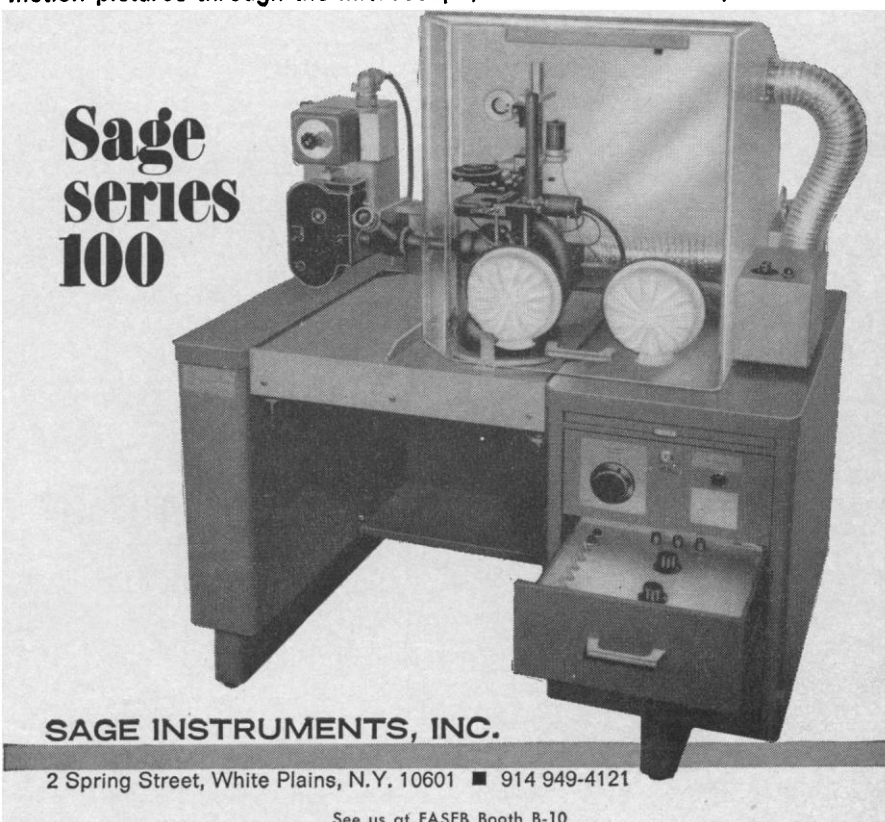
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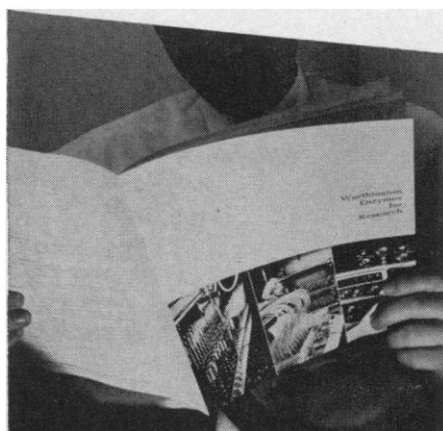


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19-23. Institute of Food Technologists, annual mtg., Philadelphia, Pa. (C. L. Willey, Executive Secretary, 221 N. La Salle St., Chicago, Ill. 60601)

20-22. Microwave Symp., Detroit, Mich. (M. C. Horton, Bendix Research Laboratories Div., Southfield, Mich. 48075)

20-23. Cement Industry, technology conf., St. Louis, Mo. (Inst. of Electrical and Electronics Engineers, R. M. Emberson, 345 E. 47 St., New York 10017)

20-24. Fire Protection Assoc., 72nd natl., Atlanta, Ga. (D. Richardson, Manager, PR Dept., National Fire Protection Assoc., 60 Batterymarch St., Boston, Mass.)

20-24. Inter-American Conf. on Materials Technology, San Antonio, Tex. (R. D. Wylie, Southwest Research Inst., 8500 Culebra Road, San Antonio)

20-24. Society of Automotive Engineers, midyear mtg., Detroit, Mich. (W. I. Marble, Meetings Div. Manager, The Society, 485 Lexington Ave., New York 10017)

21-23. Computer, joint spring conf., Atlantic City, N.J. (H. G. Asmus, American Federation of Information Processing Societies, 211 E. 43 Street, New York 10017)

21-23. National Microfilm Assoc., Chicago, Ill. (V. D. Tate, Executive Secretary, The Association, Box 386, Annapolis, Md.)

21-23. Telemetering, 18th natl. conf., Hollywood, Fla. (R. E. Blue, IBM Corp., 7900 N. Astronaut Bldg., Cape Kennedy, Fla. 32920)

21. Association for the Advancement of Psychoanalysis, New York, N.Y. (E. Schattner, Secretary, The Association, 147 E. 50 St., New York 10022)

22-23. American Iron and Steel Inst., general mtg., New York, N.Y. (The Institute, 150 E. 42 St., New York 10017)

22-25. Society of Technical Writers and Publishers, 15th annual, Los Angeles, Calif. (C. T. Youngblood, Suite 421, 1010 Vermont Ave., NW, Washington, D.C.)

23-24. Marine Aquiculture, conf., Newport, Ore. (W. J. McNeil, Oregon State Univ., Marine Science Center, Marine Science Drive, Newport 97365)

23-25. American Gynecological Soc., annual meeting, Hot Springs, Va. (G. W. Douglas, The Society, 550 First Ave., New York 10016)

23-25. Biomedical Sciences, instrumentation symp., Pittsburgh, Pa. (R. D. Allison, Scott and White Clinic, Temple, Tex. 76501)

24-25. American Podiatry Assoc., 6th regional mtg., Sioux Falls, S.D. (M. D. Scofield, Chairman, 120 W. 11 St., Sioux Falls 57102)

24-25. American Podiatry Assoc., 12th regional mtg., San Francisco, Calif. (A. G. Roos, Room 412, 209 Post St., San Francisco 94108)

27-29. American Ophthalmological Soc., Hot Springs, Va. (S. D. McPherson, Secretary-Treasurer, The Society, 1110 W. Main St., Durham, N.C. 27701)

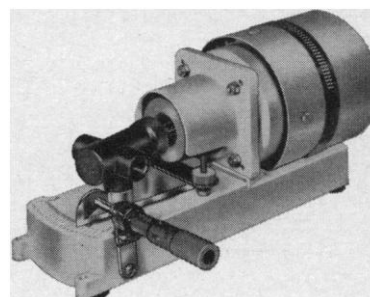
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22-26. World Meteorological Organization, Advisory Committee, 4th session, Geneva, Switzerland. (41, Ave. Guiseppe Motta, Geneva)

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22-11. **International Civil Aviation Organization**, Airworthiness Committee, 8th mtg., Amsterdam, Netherlands. (H. S. Marzusch, 3BIS, Villa Emile-Bergerat, Neuilly-sur-Seine, France)

23-24. **Physical-Chemical Methods of Corrosion Testing**, Frankfurt am Main, Germany. (Study Group on Corrosion, European Federation of Corrosion, Theodore-Huess-Allee 25, Frankfurt am Main, Germany)

23-25. **Stereochemical Nomenclature**, symp., London, England. (Ciba Foundation, 41 Portland Pl., London, W.1)

24-28. **Biochemical Mtg.**, 9th Latin, Monte Carlo, Monaco. (J. E. Curtois, 4 avenue de l'Observatoire, Paris 6, France)

28-4. **Inter-American Congr. of Atherosclerosis**, 3rd, Buenos Aires, Argentina. (J. J. Lijo Pavia, Avda. Quintana 104, Buenos Aires)

29-2. **Biochemical Analysis Conf.**, Munich, Germany. (H. Schievelbein, Secretary, Nussbaumstr. 20, 8 Munich 15)

#### May

1-3. **Vacuum Ultraviolet Physics, and Interactions with Solids**, 2nd intern. conf., Gatlinburg, Tenn. (L. C. Emerson, % Health Physics Div., Oak Ridge Natl. Lab., Oak Ridge, Tenn. 37820)

1-5. **Protides of Biological Fluids**, 16th annual colloquium, Brugge, Belgium. (Dr. Peeters, Jeruzalemstraat, 34, Brugge)

2-4. **Future of the Brain Sciences**, intern. conf., New York, N.Y. (S. Bogoch, 36 The Fenway, Boston, Mass. 02215)

4-9. **International Acad. of Proctology**, annual mtg., Montreux, Switzerland. (A. J. Canto, Secretary, The Academy, 147-41 Sanford Ave., Flushing, N.Y. 11355)

5-9. **Electron and Ion Beams in Science and Technology**, 3rd intern. conf., Boston, Mass. (C. Moore, Electrochemical Soc., Inc., 30 E. 42 St., New York 10017)

5-11. **Combustion Engines**, 8th intern. congr., Brussels, Belgium. (Federation des Entreprises de l'Industrie des Fabrications Metalliques, 21, rue des Drapiers, Brussels 5)

6-7. **Canadian Aeronautics and Space Inst.**, annual general meeting, Toronto, Ont., Canada. (Secretary, The Institute, Room 704, 77 Metcalfe St., Ottawa 4, Ont.)

6-10. **Electro-Deposition and Metal Finishing**, 7th intern. conf., Berlin, Germany. (Deutsche Gesellschaft für Galvanotechnik, Postfach 10026, 4000 Dusseldorf 10, Germany)

6-20. **Biological Organization on a Molecular Level**, Rehovoth, Israel. (M. Sela, Office of the President, Weizmann Inst. of Science, Rehovoth)

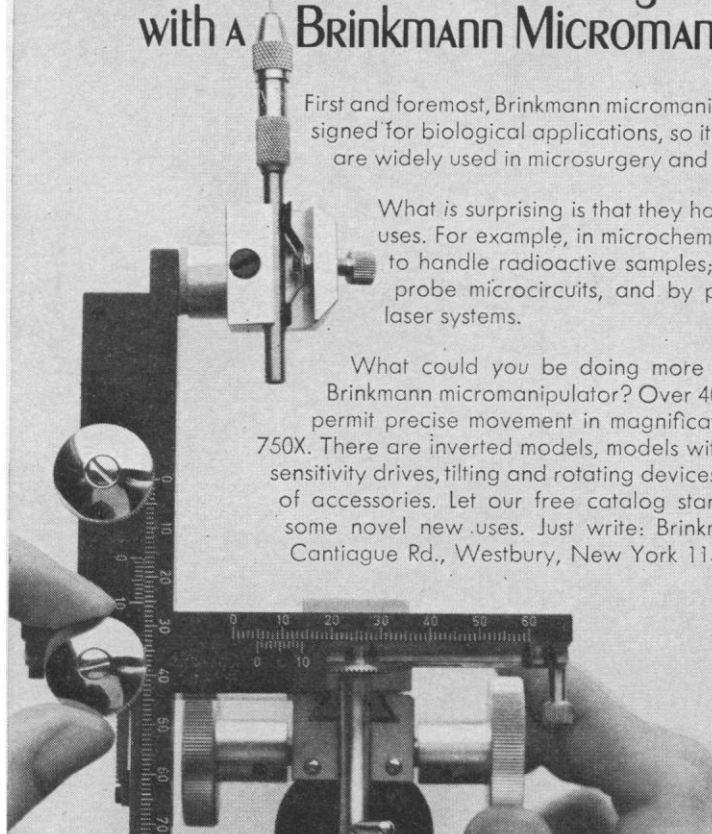
7-10. **Cryogenic Engineering**, 2nd intern. conf., Brighton, England. (Conference Secretary, ICEC2, 32 High St., Guilford, Surrey, England)

7-10. **Powder Metallurgy**, 2nd European symp., Stuttgart, Germany. (Ausschuss für Pulvermetallurgie, Breite Str. 27, Dusseldorf, Germany)

8-10. **Genetics Soc. of Canada**, annual mtg., Winnipeg, Manitoba, Canada. (K. W. Buchannon, Research Station, CDA 25 Daffoe Road, Winnipeg 19)

8-10. **Thyroid Cancers**, intern. conf., Lausanne, Switzerland. (G. Candardjis,

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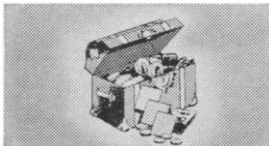
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Institut Universitaire de Radiologie Medicine, Hôpital Cantonal, 1000 Lausanne)  
9-10. Canadian Operational Research Soc., 10th technical mtg., Toronto, Ont. (J. A. Sarjeant, School of Business, Univ. of Toronto, Toronto 5, Ont.)

9-10. Oil and Colour Chemists' Assoc., conf., 50th anniversary jubilee, London, England. (R. H. Hamblin, Secretary General, Wax Chandlers' Hall, Gresham St., London, E.C.2, England)

12-14. Sugar Industry Technologists, 27th annual, Montreal, P.Q., Canada. (P.O. Box 47, Medford, Mass. 02155)

12-16. Automobile Technical Congr., 12th intern., Barcelona, Spain. (Sociedad de Technicos de Automacion, Av. Generalísimo 999, Barcelona 14)

12-16. Canadian Anaesthetists Soc., 19th annual, Montebello. (S. M. Campbell, Executive Director, The Society, 178 St. George St., Toronto 5, Ont., Canada)

12-16. Pacific Coast Oto-Ophthalmological Soc., Vancouver, B.C., Canada. (G. E. Morgan, The Society, 960 E. Green St., Pasadena, Calif. 91101)

12-17. Federation of Societies of Cosmetic Chemists, 5th intern. congr., Tokyo, Japan. (T. Koyama, Shiseido Co., Ltd., 3, Ginza Hishi, 7-Chome, Chuo-Ku, Tokyo)

12-18. Universal Aspects of Atmospheric Electricity, 4th intern. conf., Tokyo, Japan. (S. C. Coroniti, % Space Systems Div., Avco Corp., 201 Lowell St., Wilmington, Mass. 01887)

12-19. Data Processing for Climatological Purposes, Asheville, N.C. (World Meteorological Organization, 41, Avenue Guiseppe Motta, Geneva, Switzerland)

13-16. Canadian Public Health Assoc., 56th annual, Vancouver, B.C., Canada. (Executive Director, The Association, 1255 Yonge St., Toronto 7, Ont., Canada)

13-16. Circumventricular Organs and Cerebrospinal Fluid, symp., Reinhardsbrenn, Germany. (G. Sterba, Zoologisches Institut, Karl-Marx-Universität, Talstr. 33, Leipzig, Germany)

13-17. International Congr. Against Noise, 5th, London, England. (Mr. Connel, % Noise Abatement Soc., 6 Old Bond St., London, W.1.)

13-17. Mechanical Pulping, 6th intern. congr., Atlanta, Ga. (K. G. Chesley, Technical Secretary, Technical Assoc. of the Pulp and Paper Industry, 360 Lexington Ave., New York 10017)

13-18. Instruments, Electronics, and Automation, intern. exhibition, London, England. (Industrial Exhibitions Ltd., 9 Argyll St., London, W.1)

13-18. International Union for Electroheat, 6th intern. congr., Brighton, England. (British Natl. Committee on Electroheat, 2 Savoy Hill, London W.C.2, England)

13-18. Water Studies, 21st intern. conf., Liege, Belgium. (Ceredeau, 2, rue A. Stevart, Liege)

14-16. Steam Generating and Other Heavy Water Reactors, conf., London, England. (A. McDonald, Secretary, British Nuclear Soc., 1-7 Great George St., Westminster, London, S.W.1)

14-17. Quantum Electronics, intern. conf., Miami Beach, Fla. (L. Winner, 152 W. 42 St., New York, 10036)

14-19. European Federation of Chemical Engineering, 4th symp., Brussels, Belgium. (J. G. Van De Vusse, Koninklij-

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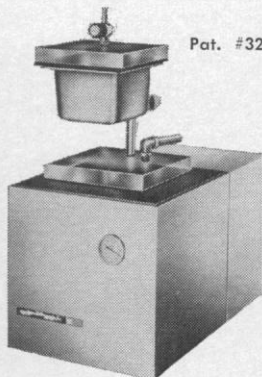
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ke/Shell Laboratorium Badhuisweg 3, Amsterdam, Netherlands)

15-17. Canadian **Phytopathological Soc.**, annual mtg., Winnipeg, Manitoba, Canada. (W. C. McDonald, Canada Dept. of Agriculture, Research Station, 25 Dafoe Rd., Winnipeg 19)

16-18. **Experimental Zoology**, intern. congr., Vienna, Austria. (Wiener Medizinische Akademie, Reisedienst Stadiongasse 6-8, A-1010 Vienna)

17-19. Royal **Astronomical Soc.** of Canada, general assembly, Calgary, Alta. (The Society, 252 College St., Toronto 2B, Ont., Canada)

18-22. **Cytology**, 3rd intern. congr., Rio de Janeiro, Brazil. (C. Ferreira, Emilio Berla 46-3 Copacabana, Rio de Janeiro)

18-28. **Eocene Stratigraphy**, symp., Paris, France. (Ch. Pomerol, Laboratoire de Geologie, 1, rue de la Brosse, Paris 5)

19-22. Canadian **Urological Assoc.**, annual mtg., Houston, Tex. (A. H. Irvine, 1105 Carling Ave., Suite 207, Ottawa 3, Ontario, Canada)

19-26. **Elementary Particle Theory**, Nobel symp., Goteborg, Sweden. (Nobel Foundation, Sturegatan 14, Stockholm 5, Sweden)

20-23. **Powder Technology**, intern. conf., Chicago, Ill. (M. Jackson, Research Inst., Illinois Inst. of Technology, 10 W. 35 St., Chicago 60616)

20-24. **Acoustical Soc. of America**, spring mtg., Ottawa, P.Q., Canada. (E. A. G. Shaw, Natl. Research Council, Sussex Drive, Ottawa)

20-24. **Inelastic Scattering of Neutrons**, symp., Copenhagen, Denmark. (Interna-

tional Atomic Energy Agency, Karntner Ring 11, Vienna 1, Austria)

20-25. **Polypeptide and Protein Hormones**, intern. symp., Liege, Belgium. (Margoulies, Institut de Medicine, Hôpital de Baviere, Liege)

20-27. International **Fertility Assoc.**, 6th world congr., Tel Aviv, Israel. (N. Soferman, P.O.B. 26102, Tel Aviv)

20-30. Control Mechanisms in **Molecular Biology**, Bergen, Norway. (Advanced Study Institute, Dept. of Biochemistry, Univ. of Bergen, Bergen)

21-23. **Agricultural Meteorology**, 8th conf., Ottawa, Ont., Canada. (K. C. Spengler, American Meteorological Soc., 45 Beacon St., Boston, Mass. 02108)

21-24. **Titanium**, intern. conf., London England. (Inst. of Metals, 17 Belgrave Sq., London, S.W.1)

22-25. Union of Societies of **Medical Sciences**, 12th natl. congr. of surgery, Bucharest, Rumania. (E. Papahagi, Str. Progresului No. 8-10, Bucharest 30)

22-29. **Recent Crustal Movements**, 3rd intern. symp., Leningrad, U.S.S.R. (Soviet Geophysical Committee, Molodezhnaya 3, Moscow B-296, U.S.S.R.)

23-25. **Ultrasonography in Ophthalmology**, 4th intern. congr., Philadelphia, Pa. (L. K. Sarin, 1601 Spring Garden St., Philadelphia 19130)

24-26. **Powder Metallurgy**, Reutte, Austria. (Metallwerk Plansee A.G., Postfach 74, A6600 Reutte)

24-31. **Chemical Arts**, intern. conf., Paris, France. (Societe de Chimie Industrielle, 80, rue de Sainte Cloud, 92 Rueil-Malmaison, France)

25-29. Canadian **Ophthalmological Soc.**, 31st annual mtg., Ottawa, Ont. (R. G. C. Kelly, The Society, 1849 Yonge St., Toronto, Ont., Canada)

25-31. **Economics of Nuclear Fuels**, symp., Gottwaldov, Czechoslovakia. (J. H. Kane, Conference Branch, Div. of Technical Information, U.S. Atomic Energy Commission, Washington, D.C. 20545)

27-29. International Days of **Chemical Engineering**, Paris, France. (Secretariat, Societe de Chimie Industrielle, 80, rue de Sainte Cloud, 92 Rueil-Malmaison, France)

27-31. Canadian Assoc. of **Geographers**, annual mtg., Calgary, Alberta. (M. R. C. Coulson, Chairman of Local Arrangements Committee, Dept. of Geography, Univ. of Calgary, Calgary)

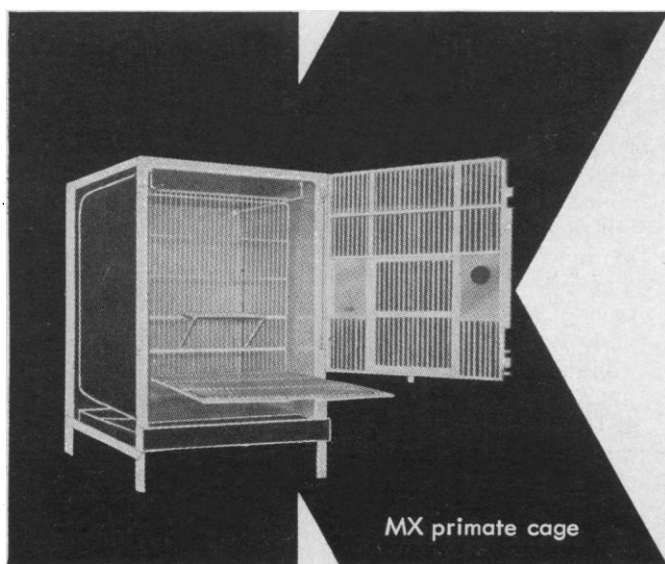
27-31. **Medical Records**, 5th intern. congr., Stockholm, Sweden. (E. Forssner, P.O. Box 5101, Stockholm 5)

27-31. **Thermionic Electrical Power Generation**, 2nd intern. conf., Stresa, Italy. (European Nuclear Energy Agency, 38, Boulevard Suchet, Paris 16, France)

27-1. **Biological Synthesis of Proteins**, 7th intern. agriculture and chemistry symp., Salamanca, Spain. (Inst. of Agricultural Chemistry, Univ. of Pisa, Via S. Michele Degli Scalzi 2, Pisa, Italy)

29-31. **Engineering Inst. of Canada**, 82nd annual general mtg., Halifax, N.S., Canada. (The Institute, General Secretary, 2050 Mansfield St., Montreal 2, P.Q., Canada)

31-1. Canadian Soc. of **Zoologists**, annual mtg., Calgary, Alberta. (J. M. Anderson, Secretary-Treasurer, FRB Biological Station, St. Andrews, New Brunswick)



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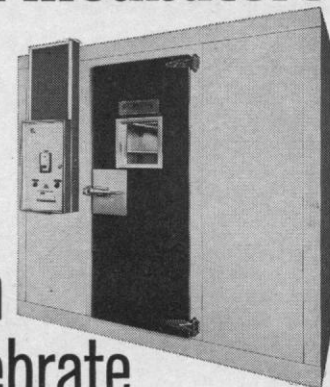
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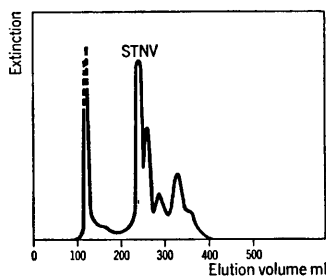
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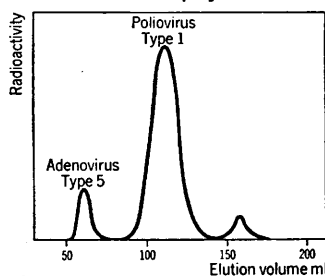
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4B	40-190	4	3x10 <sup>5</sup> to 3x10 <sup>6</sup> *

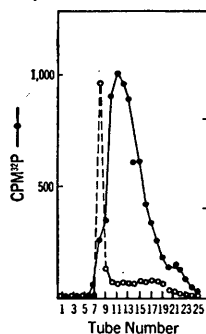
\*Determined with polysaccharides.



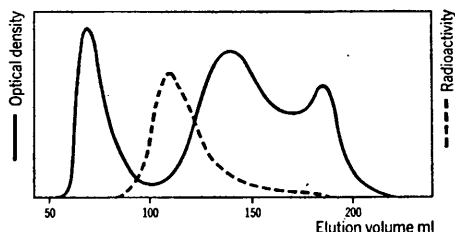
Chromatography of a crude preparation of satellite tobacco necrosis virus on Sepharose 4B.



Separation of <sup>32</sup>P-labeled adenovirus and poliovirus on Sepharose 2B.



Separation of the replicative RNA intermediate (first peak) synthesized in RNA phage-infected cells from single stranded cellular RNA (second peak) on Sepharose 4B. Erikson and Gordon, Biochem. Biophys. Res. Commun. 23 (1966) 422-428.



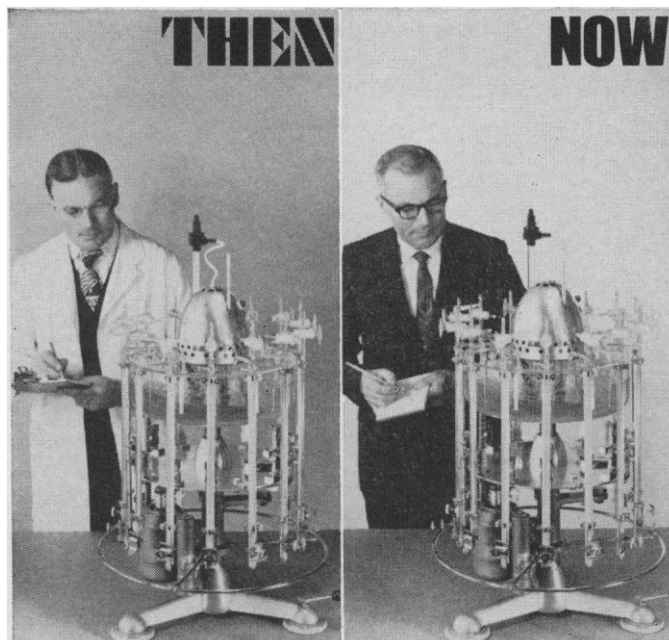
Separation of a mixture of KB-cell nucleic acids and <sup>32</sup>P-labeled poliovirus RNA on Sepharose 2B. The first peak contains KB-cell DNA, followed by poliovirus RNA, KB-cell r-RNA and KB-cell s-RNA.

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## BOOKS RECEIVED

(Continued from page 180)

London, May 1965. Society of Chemical Industry, London; Gordon and Breach, New York, 1967. vi + 277 pp., illus. \$28.

**Beginner's Guide to Electronics.** Terence L. Squires. Philosophical Library, New York, 1967. viii + 194 pp., illus. \$6. Reprint of the 1964 edition.

**Bubble and Spark Chambers.** Principles and Use. Vol. 1. R. P. Shutt, Ed. Academic Press, New York, 1967. xiv + 425 pp., illus. \$18.50. Pure and Applied Physics Series.

**Buller's Birds of New Zealand.** A History of the Birds of New Zealand by Sir Walter Lawry Buller. Edited and revised by E. G. Turbott, with colour reproductions of the stone-plate lithographs by J. G. Keulemans. East-West Center Press, Honolulu, 1967. xviii + 261 pp. \$25.

**The Causes of Blindness in Childhood.** A Study of 776 Children with Severe Visual Handicaps. G. R. Fraser and A. I. Friedmann. Johns Hopkins Press, Baltimore, 1967. xviii + 245 pp., illus. \$12.

**Chemistry, Physics and Application of Surface Active Substances.** Proceedings of the 4th international congress on Surface Active Substances, Brussels, September 1964. Vol. 1 (Section A of the Congress), Chemistry of Surface Active Substances. F. Asinger, Ed. Gordon and Breach, New York, 1967. ix + 549 pp., illus. \$39.50.

**Coupling Research and Production.** Proceedings of a symposium of the American Institute of Mining, Metallurgical and Petroleum Engineers, Los Angeles, October 1966. George Martin and R. H. Willens, Eds. Interscience (Wiley), New York, 1967. viii + 283 pp., illus. \$12.

**Crossroad Puzzlers.** David Webster. Published for the American Museum of Natural History by the Natural History Press, Garden City, N.Y., 1967. 127 pp., illus. \$3.50.

**Current Medical Research.** Her Majesty's Stationery Office, London; British Information Services, New York, 1967. iv + 83 pp. Paper, \$1.60. A reprint of the articles in the Medical Council's Annual Report, April 1966-March 1967.

**Danish Expeditions on the Seven Seas.** Torben Wolff. Rhodos, Copenhagen, 1967. 336 pp., illus. \$21.

**Dielectrics.** J. C. Anderson. Chapman and Hall, London; Science Paperbacks London, 1967 (distributed in the United States by Barnes and Noble, New York). iii + 171 pp., illus. Cloth, \$4.50; paper, \$3. Modern Electrical Studies.

**Encyclopedia of Industrial Chemical Analysis.** Vol. 5, Alkanolamines to Antibiotics. Foster Dee Snell and Clifford L. Hilton, Eds. Interscience (Wiley), New York, 1967. xii + 677 pp., illus. \$45; subscription, \$35.

**Endocrine Coordination in Invertebrates.** An Introduction to Neuroendocrine Regulation in Animals. Gary F. Kelly. Pageant Press, New York, 1967. xii + 119 pp., illus. \$2.75.

**Energy into Power.** The Story of Man and Machines. E. G. Sterland. Published for the American Museum of Natural History by the Natural History Press, Garden City, N.Y., 1967. 252 pp., illus. \$5.95. The Nature and Science Library.

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Edited by T.K. Shnitka, J.A.L. Gilbert and R.C. Harrison, *all University of Alberta, Canada*  
This volume of Proceedings of the Symposium held at the University of Alberta offers all readers interested in the secretory function of the stomach an opportunity to review the most recent advances in special areas of basic inquiry. Addressing an audience of 150 of the world's foremost authorities in the field of gastric physiology, the following 31 invited speakers reported their research findings:

Andersson, Blair, Card, Clarke, Code, Crean, Davies, Dragstedt, Elliott, Ellison, Emas, Glass, Gregory, Grossman, Hollander, Irving, Ito, Jeffries, Jordan, Leonard, Makhoul, Menguy, Murray, Olbe, Rasanen, Rudick, Schofield, Sircus, Teir, Thompson, Webster.

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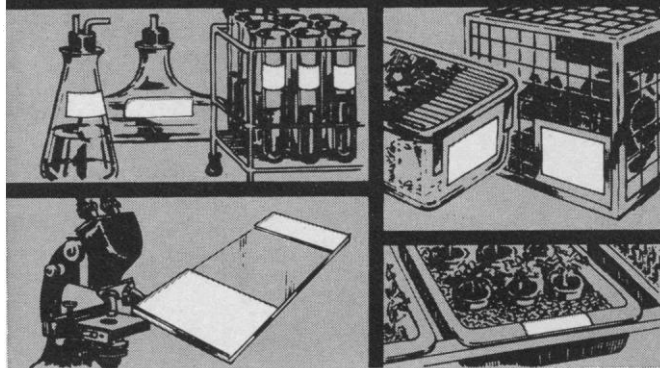
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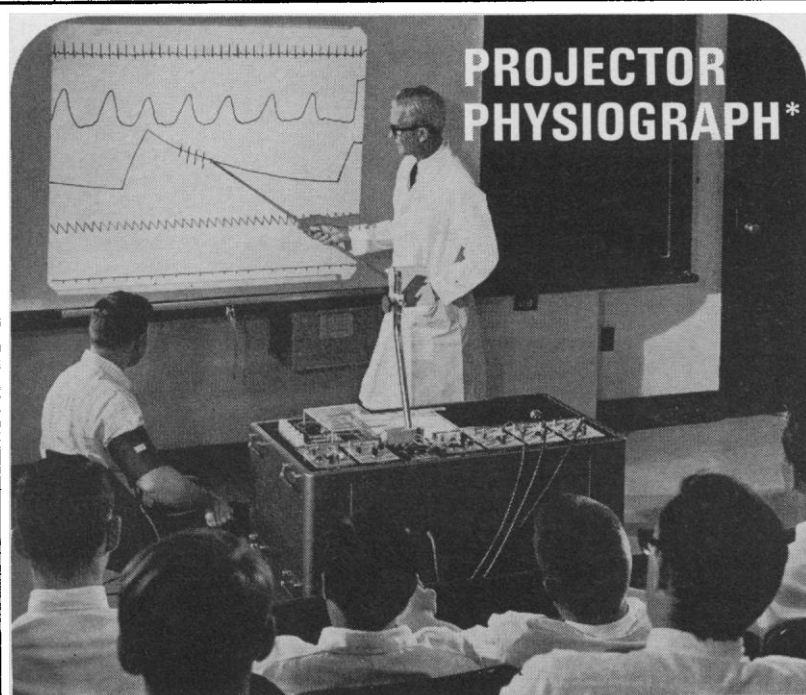
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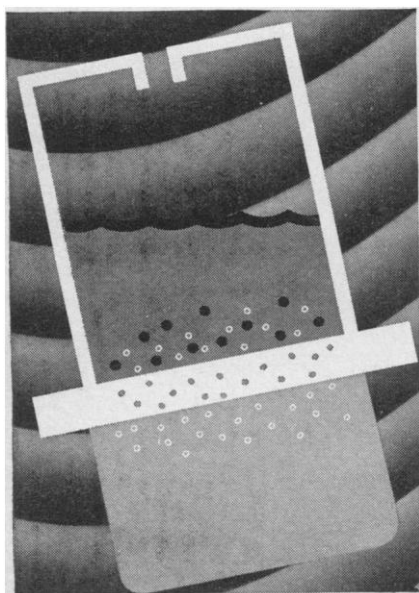
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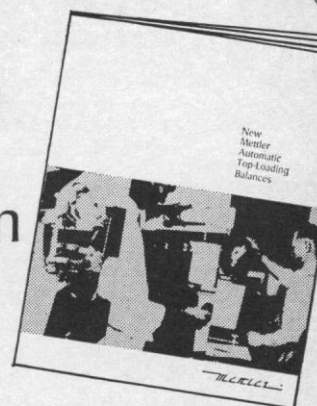
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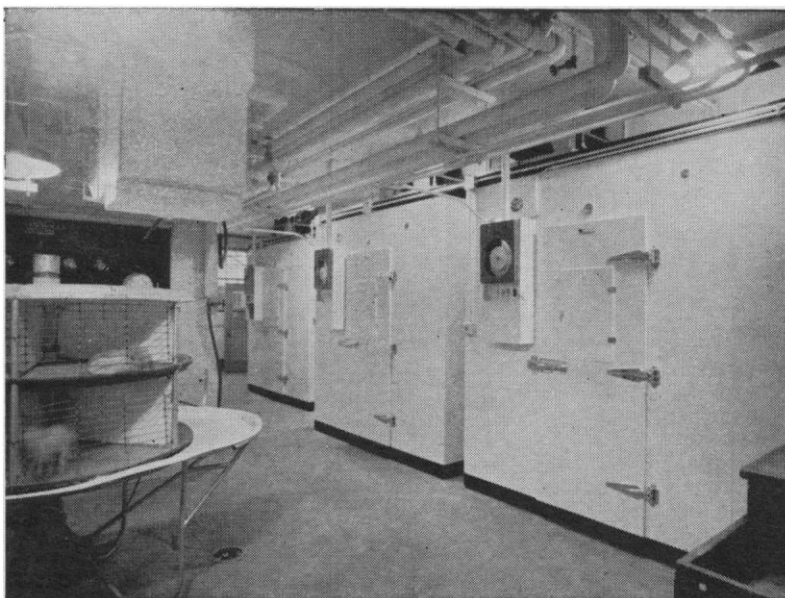
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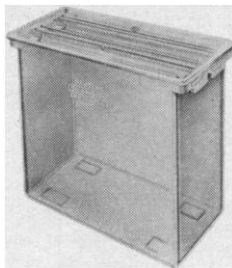
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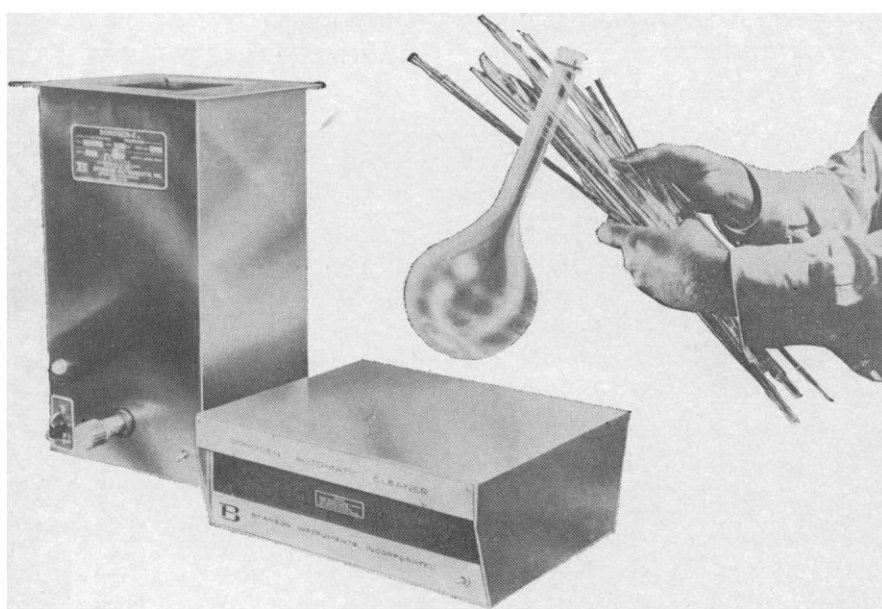
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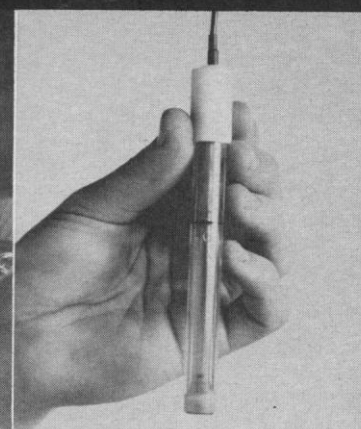
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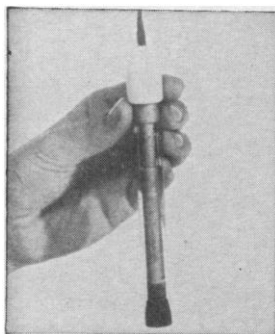


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