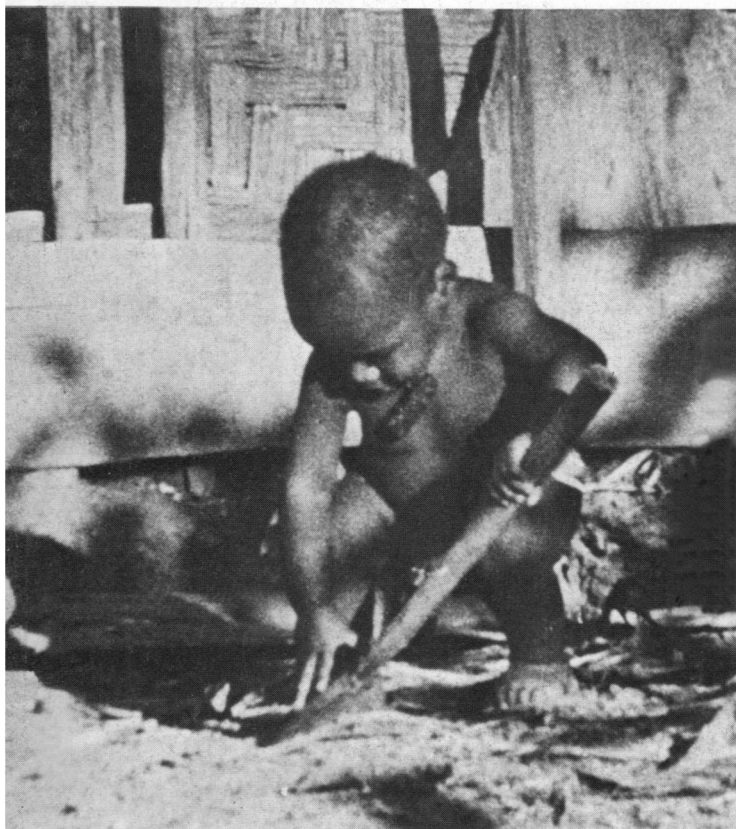


# SCIENCE

20 December 1974

Vol. 186, No. 4169

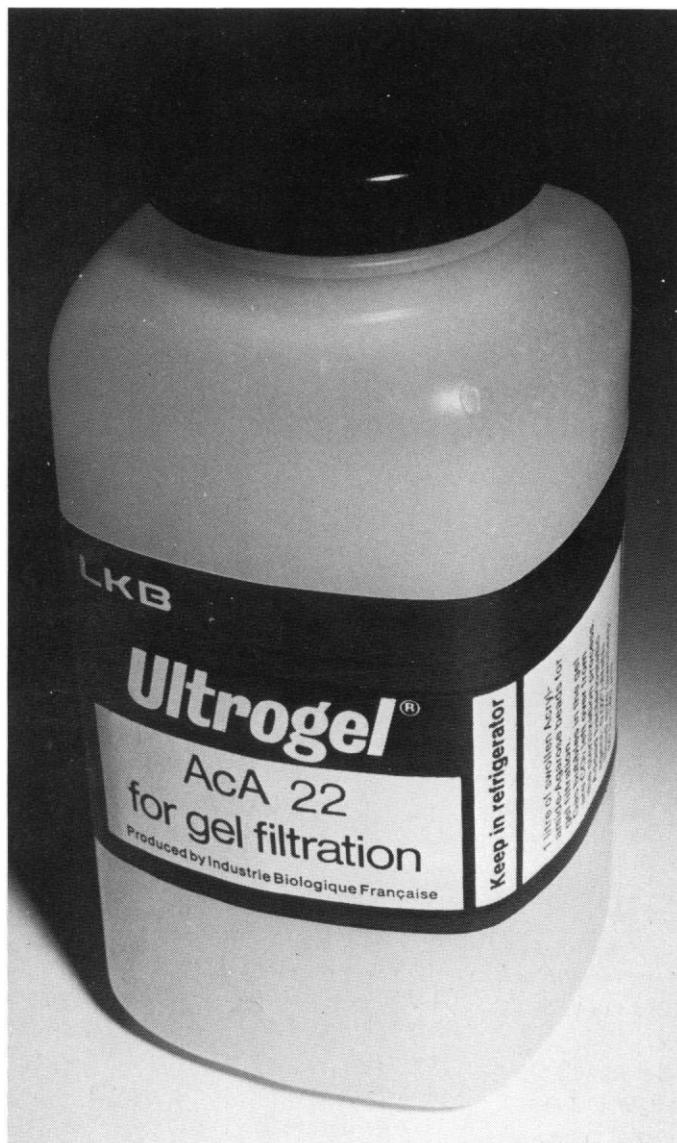
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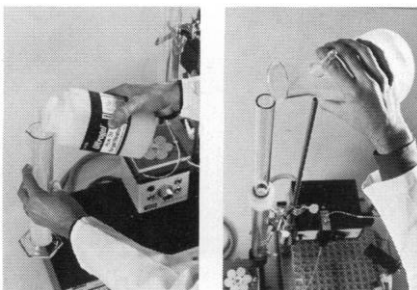
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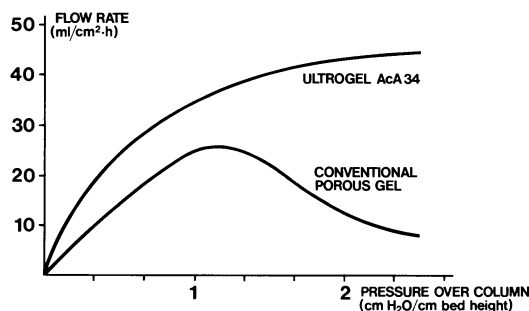
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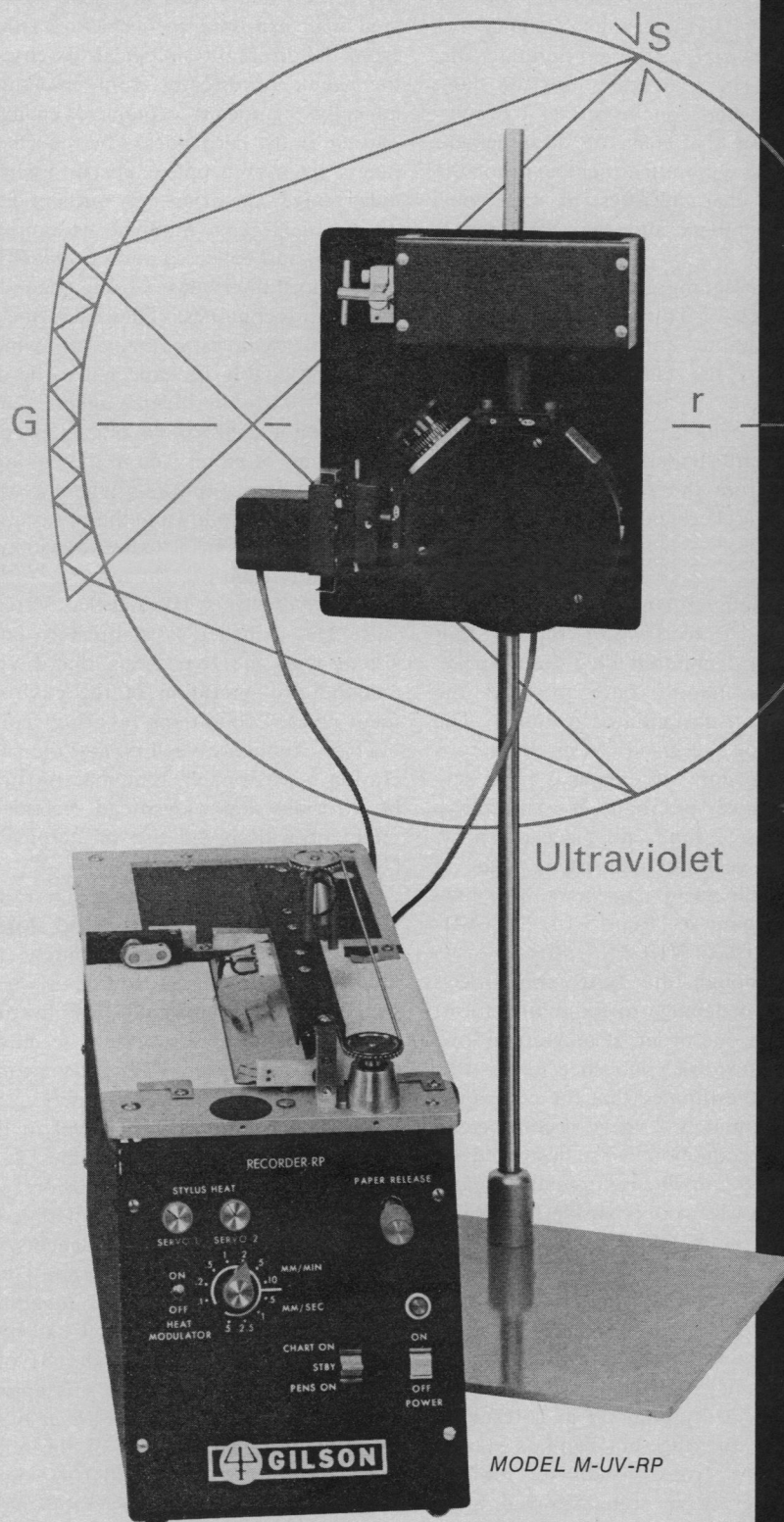
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## Social Sciences, Future Tense

The social sciences are currently under attack, notably from universities and government agencies, who are their primary patrons. Budget restrictions are the immediate impetus behind the attack, as university and government administrators are forced to find weak spots to save money. There is firm evidence of this in the new National Science Foundation budget, which contains no increase for the social sciences.


Senator Proxmire's criticism of exotic social science research might be dismissed as another congressional ritual were it not for echoes in the rhetoric voiced by high-level administrators. There are several forms of that rhetoric. Type 1 avers that social scientists are not studying immediate social problems, which by the accepted division of scientific labor are meant to be within their province. Type 2 stresses an apparent lack of scientific standards in the social sciences by which research findings and generalizations can be validated. Type 3 focuses on the numerous arguments within each of the disciplines and the evident lack of consensus. All add up to an abysmally low appraisal of the social sciences.

It would be foolish to dismiss these criticisms as only a temporary storm. The economic situation is not likely to improve quickly, and pressures for budget cutting can be expected to continue. For another thing, administrators are likely to convince themselves that they are right, thereby committing themselves to force a reorganization of the social sciences. A likely consequence of these forces in the long run may be a leveling of the differences in orientation and perspective that have been the intellectual life of every social science. This could come about partly through a reactive response by social scientists to answer type 3 complaints and partly through the ascendancy of those who will respond to the type 1 complaints as they see scarce funds directed toward certain types of research.

There is no time to try to educate university and government administrators about the real nature of the social sciences. Besides, if we have not succeeded in educating them in the past 25 years we are not likely to succeed in the next few years. Nor will much be gained by counter-arguments that social problems are highly complex, that social scientists are seldom consulted about policy and little interest has been shown in their findings, or that continuing basic research is as necessary for the social as for the other sciences. Most administrators, I suspect, have a self-fulfilling image of the social sciences by which they perceive only those features that support what they already believe.

I propose several countermeasures. First, we do need to take a hard look at our disciplines, as those best informed to determine where we want to go and how best to get there. This does *not* mean trying to force a single mold, and like an oppressed people desperately trying to conform to the image drawn by administrators. Second, we might begin to practice some "democratic centralism," keeping our criticisms within the discipline rather than airing them in public to win supporters to one point of view or another. Outsiders view these without any perspective as serious complaints. Finally, we might begin aggressively to insist on a balanced recognition of what we know and do, an activity that we have heretofore dismissed. It is not often the social scientists who falter in applying the consequences of their research, but rather the high-level administrators themselves who are looking only for modifications that can be applied within existing social forms.—LEONARD REISSMAN, *Chairman, Department of Sociology, Cornell University, Ithaca, New York 14853*



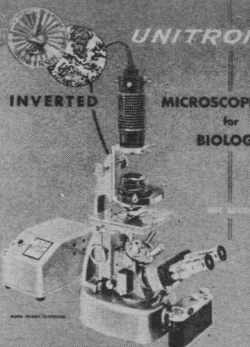


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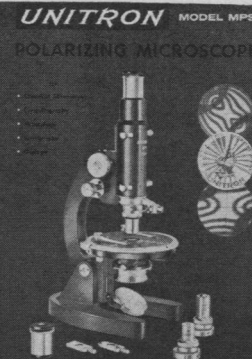
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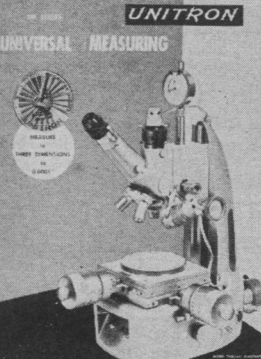
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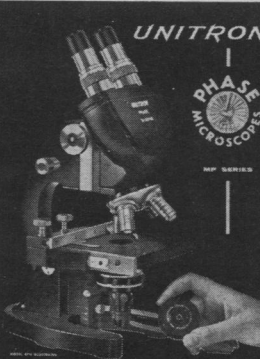


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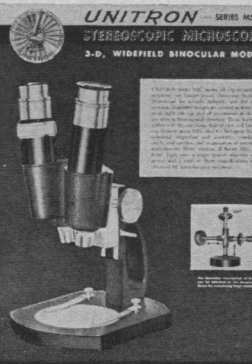
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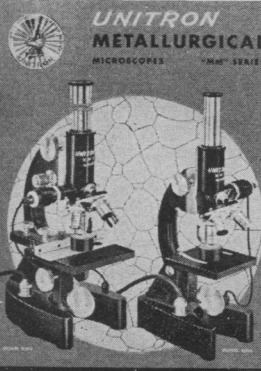
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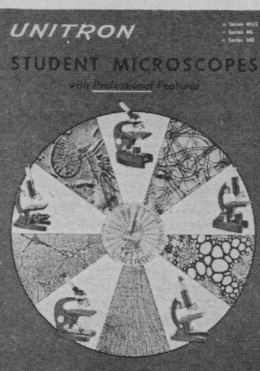
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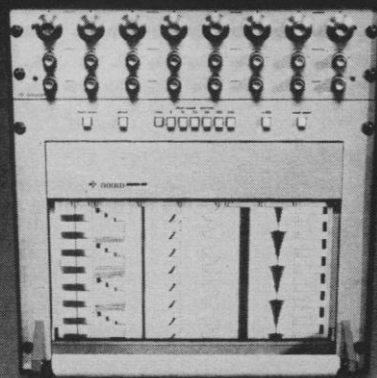
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**January**

20-22. Conference on **Computer Architecture**, Inst. of Electrical and Electronics Engineers, Houston, Tex. (W. King, Dept. of Computer Science, Univ. of Houston, Houston 77004)

20-22. Society of **Thoracic Surgeons**, Montreal, Canada. (W. G. Purcell, 111 E. Wacker Drive, Chicago, Ill. 60601)

20-23. American **Meteorological Soc.**, 55th annual, Denver, Colo. (P. Julian, Natl. Center for Atmospheric Research, Box 3000, Boulder, Colo. 80303)

20-24. Nevada Acad. of **Family Physicians**, Lake Tahoe. (B. Holland, NAFF, 225 Albany St., Carson City, Nev. 89701)

20-25. Orbis Scientiae of the Center for **Theoretical Studies**, 2nd mtg., Coral Gables, Fla. (S. M. Widmayer, Center for Theoretical Studies, Univ. of Miami, Coral Gables 33124)

21-22. **Vehicular Technology Conf.**, 25th, Inst. of Electrical and Electronics Engineers, Toronto, Ont., Canada. (G. A. Ross, Sinclair Radio Labs., Ltd., 122 Rayette Rd., Concord, Ont.)

22. **Microprocessors and Microcomputers Symp.**, Newark, N.J. (Continuing Education, Newark College of Engineering/New Jersey Inst. of Technology, 323 High St., Newark 07102)

23-24. **Fibrinolytic System: Molecular and Physiologic Aspects**, 23rd annual symp., Detroit, Mich. (E. F. Mammen, Dept. of Physiology, Wayne State Univ., Scott Hall of Basic Medical Sciences, Detroit 48201)

23-27. American **Mathematical Soc.**, Washington, D.C. (E. Pitcher, Dept. of Mathematics, Lehigh Univ., Bethlehem, Pa. 18015)

23-27. Conference Board of the **Mathematical Sciences**, Washington, D.C. (T. A. Botts, 834 Joseph Henry Bldg., 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

24-25. **Developmental Psycholinguistics and Communication Disorders Conf.**, New York Acad. of Sciences, New York. (Conf. Dept., NYAS, 2 E. 63 St., New York 10021)

25-27. **Mathematical Assoc. of Amer-**

**ica**, Washington, D.C. (H. L. Alder, Dept. of Mathematics, Univ. of California, Davis 95616)

26-31. American Assoc. for the **Advancement of Science**, 141st annual, New York, N.Y. (AAAS Meetings Office, 1776 Massachusetts Ave., NW, Washington, D.C. 20036)

26-31. **Power Engineering Soc.**, Inst. of Electrical and Electronics Engineers, New York, N.Y. (J. W. Bean, IEEE, 345 E. 47 St., New York 10017)

27-29. National Conf. on **Materials Availability/Utilization**, American Soc. for Metals, Chicago, Ill. (T. F. Andrassy, ASM Materials Conf., Metals Park, Ohio 44073)

27-29. International Conf. on **Metric Education**, 2nd, Biloxi, Miss. (G. Tinnon, Southern Sta., Box 56, Hattiesburg, Miss. 39401)

27-30. American Assoc. of **Physics Teachers**, Anaheim, Calif. (A. A. Strassenburg, AAPT, Drawer AW, Stony Brook, N.Y. 11790)

27-31. American **Nature Study Soc.**, New York, N.Y. (B. J. McKnight, ANSS, State Univ. College, New Paltz, N.Y. 12561)

28-30. Association for the **Development of Computer-Based Instruction Systems**, Charleston, S.C. (K. A. Duncan, Office of Computer Resources, College of Dental Medicine, 80 Barre St., Charleston 29401)

28-30. **Reliability and Maintainability Symp.**, American Soc. for Quality Control, Washington, D.C. (J. H. Simm, Beckman Inst., Inc., 2200 Wright Ave., Richmond, Calif. 94804)

28-3. Winter **Medical-Dental Assembly**, Havana and Varadero Beach, Cuba. (A. T. Wachna, 504 Medical Arts Bldg., Windsor 14, Ont., Canada)

29-31. Western **Spectroscopy Assoc.**, 22nd annual, Pacific Grove, Calif. (G. R. Haugen, L-404, Univ. of California, Lawrence Livermore Lab., Livermore 94550)

29-1. Southern Soc. for **Pediatric Research**, New Orleans, La. (J. R. Montgomery, Dept. of Pediatrics, Baylor College of Medicine, Houston, Tex. 77025)

31-2. Los Angeles Midwinter **Radio-logical Conf.**, 27th annual, Los Angeles, Calif. (J. F. Mack, 4500 Marloma Dr., Rolling Hills Estate, Calif. 90274)

31-2. Southern **Radiological Conf.**, 19th, Point Clear, Ala. (M. Eskridge, P.O. Box 7544, Mobile, Ala. 36607)

31-5. **Biofeedback Research Soc.**, 6th annual, Monterey, Calif. (F. Butler, Room 202, Dept. of Psychiatry, Univ. of Colorado Medical Center, 4200 E. Ninth Ave., Denver, Colo. 80220)

**February**

2-5. American Soc. for **Adolescent Psychiatry**, 3rd Pan American mtg., Mexico City, Mexico. (M. D. Staples, 24 Green Valley Rd., Wallingford, Pa. 19086)

2-9. Noah Worcester **Dermatological Soc.**, Phoenix, Ariz. (H. Plotnick, 1150 David Whitney Bldg., Detroit, Mich. 48226)

3-7. National Symp. on **Forensic Science**, 4th, Perth, West Australia. (V. J. McLinden, Australian Forensic Science Soc., Government Chemical Labs., 30 Plain St., Perth, West Australia 6000)

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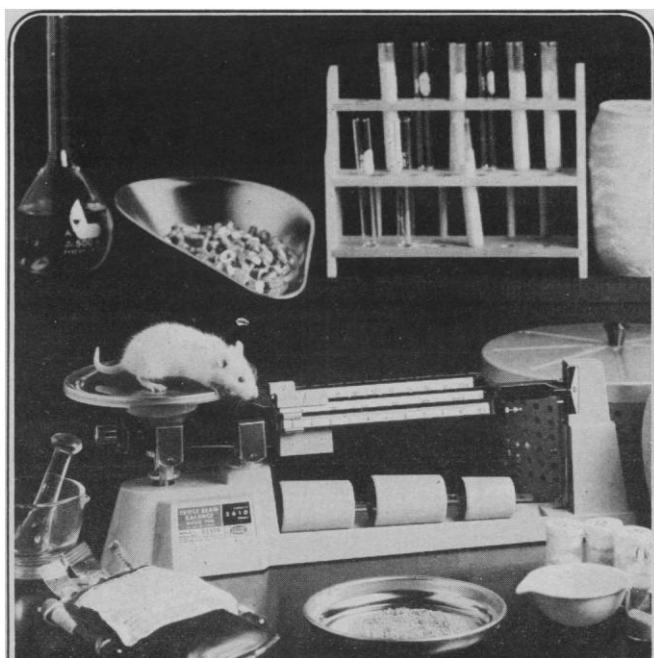
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4-7. **Industrial Waste Water and Wastes**, 2nd intern. congr., Union of Pure and Applied Chemistry, Stockholm, Sweden. (B. Goransson, ICIWW, Box 5607, S-114 86 Stockholm 5, Sweden)

4-7. **Society for Range Management**, Mexico City, Mexico. (F. T. Colbert, SRM, 2120 S. Birch St., Denver, Colo. 80222)

4-8. **American Group Psychotherapy Assoc.**, San Antonio, Tex. (M. Keefe, AGP, 12th Floor, 1865 Broadway, New York 10023)

5-7. **Aerospace and Electronic Systems**, 16th annual, Aerospace and Electronics Systems Soc. and the Los Angeles Council of the Inst. of Electrical and Electronic Engineers, Los Angeles, Calif. (Room

1920, IEEE Los Angeles Council Office, 3600 Wilshire Blvd., Los Angeles 90010)

5-7. **San Diego Biomedical Symp.**, 14th annual, sponsored by American Soc. for Quality Control, Mission Bay, San Diego, Calif. (L. Rosen, Dept. of Radiology, Univ. of California, P.O. Box 109, La Jolla 92037)

6-7. **Physiology and Pathology of Human Aging**, Symp., Miami, Fla. (M. Rockstein, Univ. of Miami School of Medicine, P.O. Box 875, Biscayne Annex, Miami 33152)

6-8. **International Soc. of Lymphology**, Rio de Janeiro, Brazil. (R. C. Mayall, 52, rue Dona Mariana, Buenos Aires, Argentina)

10-11. **Symposium on Practical Appli-**

**cations of Neutron Radiography and Gauging**, National Bureau of Standards and American Soc. for Testing and Materials, Gaithersburg, Md. (H. Berger, Reactor Radiation Div., Inst. for Materials Research, NBS, Washington, D.C. 20234)

10-13. **American College of Cardiology**, Houston, Tex. (W. D. Nelligan, ACC, 9650 Rockville Pike, Bethesda, Md. 20014)

10-13. **Meteorological Observations and Instrumentation**, 3rd symp., American Meteorological Soc., Washington, D.C. (J. Giraytys, Code W141, Natl. Weather Service, 8060 13th St., Silver Spring, Md. 20910)

12-14. **Solid State Circuits**, intern. conf., Inst. of Electrical and Electronics Engineers, Philadelphia, Pa. (IEEE, 345 E. 47 St., New York 10017)

12-15. **Southern Neurosurgical Soc.**, San Antonio, Tex. (G. T. Tindall, Emory Univ. Clinic, 1365 Clifton Rd., NE, Atlanta, Ga. 30322)

13-15. **Society of University Surgeons**, Phoenix, Ariz. (E. W. Fonkalsrud, Dept. of Surgery, Univ. of California Medical Center, Los Angeles, Calif. 90024)

14-15. **International Symp. on Psychopharmacology**, Louisville, Ky. (C. B. Denber, Dept. of Psychiatry and Behavioral Sciences, Univ. of Louisville, School of Medicine, Louisville 40201)

15-16. **Symposium on Computers in Laboratory Medicine**, San Francisco, Calif. (J. Hall, Continuing Education in Sciences and Mathematics, Univ. of California Extension, Berkeley 94720)

15-19. **American Acad. of Allergy**, San Diego, Calif. (J. O. Kelley, AAA, 225 E. Michigan St., Milwaukee, Wis. 53202)

15-21. **Pan-Pacific Surgical Assoc.**, Honolulu, Hawaii. (R. A. Rose, PPSA, 236 Alexander Young Bldg., Honolulu 96813)

16-20. **American Inst. of Mining, Metallurgical and Petroleum Engineers**, New York, N.Y. (J. B. Alford, AIMMPE, 345 E. 47 St., New York 10017)

16-21. **Inter-American Congr. of Radiology**, Bogotá, Columbia. (A. Mejia, IACR, Aptdo Aereo 53737, Bogotá 2)

17-18. **Conference on Glacial Till**, Ottawa, Ont., Canada. (M. K. Ward, Conf. on Glacial Till, Natl. Research Council of Canada, Ottawa, K1A 0R6)

17-20. **Southeastern Conf. on Combinatorics, Graph Theory and Computing**, 6th, Boca Raton, Fla. (F. Hoffman, Dept. of Mathematics, Florida Atlantic Univ., Boca Raton 33432)

17-20. **Southern Surgical Congr.**, 43rd annual, Atlanta, Ga. (A. H. Letton, SSC, 340 Boulevard, NE, Atlanta 30312)

18-21. **Biophysical Soc.**, Philadelphia, Pa. (M. O. Daynoff, Natl. Biomedical Research Foundation, Georgetown Univ. Medical Center, 3900 Reservoir Rd., NW, Washington, D.C. 20007)

18-22. **American Acad. of Forensic Sciences**, Chicago, Ill. (M. M. Hibbard, AAFS, Room 515, 11400 Rockville Pike, Rockville, Md. 20852)

20-21. **Applied Vacuum Science and Technology**, 4th symp., Southeastern Regional Administrative Group, American Vacuum Soc., Tampa, Fla. (R. G. Oswald, Honeywell, Inc., MS229, 13350 U.S. Hwy. 19, St. Petersburg, Fla. 33733)

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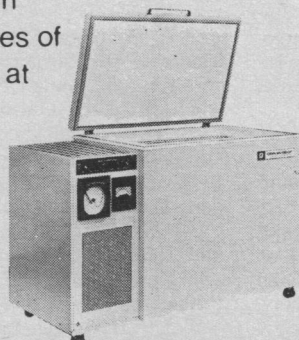
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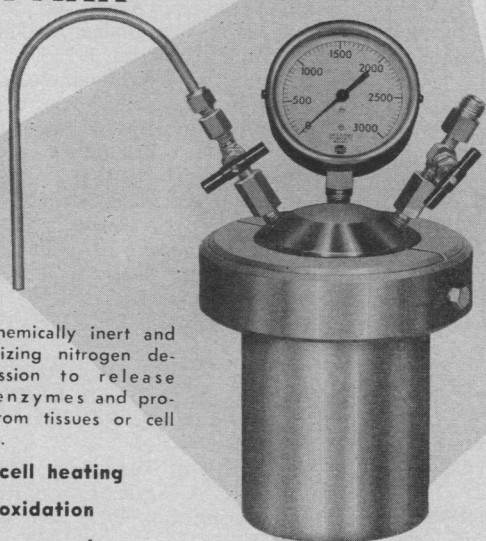
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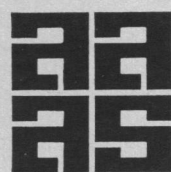
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21-26. California Medical Assoc., Los Angeles. (H. Hassard, 731 Market St., San Francisco, Calif. 94103)

21-28. American Soc. of Clinical Pathologists and College of American Pathologists, Las Vegas, Nev. (J. Graves, Intersociety Committee on Pathology Information, 9650 Rockville Pike, Bethesda, Md. 20014)

22. Oregon Acad. of Science, Salem. (F. A. Hirsch, Dept. of Geography, Oregon College of Education, Monmouth 94761)

23-28. Coping with Environmental and Safety Regulations in the Food Industry, 5th conf., Engineering Foundation, Pacific Grove, Calif. (EF, 345 E. 47 St., New York 10017)

24-27. International Conf. on Carriers and Channels in Biological Systems, New York Acad. of Sciences, New York, N.Y. (Conf. Dept., NYAS, 2 E. 63 St., New York 10021)

24-27. Experimental Medicine and Surgery in Primates, 4th conf., Jerusalem, Israel. (J. Moor-Jankowski, LEMSIP, New York Univ. Medical Center, 550 First Ave., New York 10016)

25-26. American Inst. of Aeronautics and Astronautics, Washington, D.C. (J. J. Harford, AIAA, 1290 Ave. of the Americas, New York 10019)

25-27. Computer Conf., Inst. of Electrical and Electronics Engineers, Philadelphia, Pa. (IEEE, Technical Activity Board, 345 E. 47 St., New York 10017)

26-1. Assoc. for Children with Learning Disabilities, 12th intern. conf., New York, N.Y. (K. M. Tillotson, ACLD, Lower Level, 5225 Grace St., Pittsburgh, Pa. 15236)

26-1. American Cleft Palate Assoc., New Orleans, La. (H. A. Leeper, Jr., Speech and Hearing Clinic, Hanner Hall, Oklahoma State Univ., Stillwater 74073)

26-1. Society of Professors of Education, Chicago, Ill. (R. E. Bayles, 326 Adams St., Decatur, Ga. 30030)

26-2. Medical Soc. of Pan-American Doctors' Club, San Miguel, Mexico. (T. R. Maxson, Arilen Acres, Warrenburg, Mo. 64093)

27-1. American Soc. for Surgery of the Hand, San Francisco, Calif. (J. A. Boswick, Jr., ASSH, Box 2414, 4200 E. Ninth Ave., Denver, Colo. 80220)

27-1. Central Surgical Assoc., Chicago, Ill. (A. J. Walt, CSA, 540 E. Canfield, Detroit, Mich. 48201)

### March

1. American Orthopaedic Foot Soc., San Francisco, Calif. (H. R. Cowell, Veterans Administration Center, 1601 Kirkwood Hwy., Wilmington, Del. 19805)

1-4. American Assoc. of Pathologists and Bacteriologists, New Orleans, La. (R. E. Anderson, Dept. of Pathology, Univ. of New Mexico School of Medicine, Albuquerque 87106)

1-6. American Acad. of Orthopaedic Surgeons, San Francisco, Calif. (C. V. Heck, AAOS, 430 N. Michigan Ave., Chicago, Ill. 60611)

1-8. International Acad. of Pathology, U.S.-Canadian Div., New Orleans, La.

(L. D. Stoddard, Dept. of Pathology, Medical College of Georgia, Augusta 30902)

2-6. Pine Mountain Conf. on Immunochemistry, American Assoc. of Clinical Chemists, Pine Mountain, Ga. (PMC, P.O. Box 50122, Federal Annex, Atlanta, Ga. 30302)

2-7. American Soc. of Contemporary Medicine and Surgery, Miami Beach, Fla. (V. Kendall, Suite 1506, ASCMS, 30 N. Michigan Ave., Chicago, Ill. 60602)

2-7. American Soc. on Contemporary Ophthalmology, Miami Beach, Fla. (J. G. Bellows, Suite 1506, ASCO, 30 N. Michigan Ave., Chicago, Ill. 60602)

3-5. National Federation of Abstracting and Indexing Services, Washington, D.C. (S. Keenan, NFAIS, 3401 Market St., Philadelphia, Pa. 19104)

3-5. Hydrogen-Energy Fundamental Symp., Coral Gables, Fla. (T. N. Veziroglu, Clean Energy Research Inst., School of Engineering and Environmental Design, Univ. of Miami, Coral Gables 33124)

3-7. Pittsburgh Conf. on Analytical Chemistry and Applied Spectroscopy, 26th, Soc. for Analytical Chemists of Pittsburgh and Spectroscopy Soc. of Pittsburgh, Cleveland, Ohio. (P. M. Castle, Westinghouse Research Labs., Beulah Rd., Pittsburgh, Pa. 15235)

3-7. Medical Data Processing Symp., Toulouse, France. (Inst. for Research in Information and Automation, Public Relations Dept., Domaine de Voluceau, 7815-Rocquencourt, France)

3-7. Nuclear Cross Sections and Technology Conf., American Nuclear Soc., American Physical Soc., Intern. Union of Pure and Applied Physics, National Bureau of Standards, and U.S. Atomic Energy Commission, Washington, D.C. (W. W. Havens Jr., Div. of Nuclear Science and Engineering, Columbia Univ., 520 W. 120 St., New York 10027)

6-7. Mississippi Acad. of Sciences, Jackson. (C. L. Dodgen, University Medical Center, Jackson 39216)

6-7. American Psychopathological Assoc., 65th annual, New York, N.Y. (E. Sachar, Bronx Municipal Hospital Center, Eastchester Rd. and Pelham Pkwy., Bronx, N.Y. 10461)

6-9. Student American Medical Assoc., Chicago, Ill. (C. C. Dewitt, 1400 Hicks Rd., Rolling Meadows, Ill. 60008)

7-12. American Soc. of Photogrammetry, Washington, D.C. (L. P. Jacobs, ASP, 105 N. Virginia Ave., Falls Church, Va. 22046)

9-13. Medical Soc. of the State of New York, New York. (H. I. Fineberg, MSSNY, 420 Lakeville Rd., Lake Success, N.Y. 11040)

9-13. Society of Toxicology, Williamsburg, Va. (R. A. Scala, Exxon Research and Engineering Co., P.O. Box 45, Linden, N.J. 07036)

10-12. Symposium on the Integrity of Water, Environmental Protection Agency, Washington, D.C. (K. M. Mackenthun, Office of Water Planning and Standards, Office of Water and Hazardous Materials, EPA, Washington, D.C. 20460)

10-14. International Symp. on Advances in Biomedical Dosimetry, Intern. Atomic Energy Agency, Vienna, Austria. (J. H. Kane, Office of Information Ser-