

area (5), by waste water recycling, desalting, weather modification, and water harvesting, to say nothing of more efficient use of water supplies in agriculture, industry, and the home. Wollman *et al.* have pointed out the greater economic benefits of using water for municipal and industrial purposes than for agriculture in areas experiencing industrial development (6).

Cropland acreage in the United States has been declining since 1950, at an annual rate of about 2.5 million acres per year (7). Productive capacity of the land exceeds current demands for food and fiber, resulting in government programs of acreage diversion of cropland to noncrop uses. Under these programs, 50 to 60 million acres of cropland are diverted temporarily to noncropland (8).

Needs of the potential water-importing regions is not the only consideration. Regions of potential water export are sensitive to the possible restrictions on their economic development that may result if part of their presently excess water supplies are permanently diverted to another region (9). That sensitivity has led to assurances, of doubtful legality, that the area of origin of transferred water would always be able to retain the water it would need for future development (10). Predicting those needs is extremely difficult.

References

1. C. C. Warnick, in *Arid Lands in Perspective*, W. G. McGinnies and B. J. Goldman, Eds. (Univ. of Arizona Press, Tucson, 1969), pp. 340-352.
2. P. H. McGauhey, *ibid.*, pp. 358-363; G. W. Thomas and T. W. Box, *ibid.*, pp. 363-374.
3. C. W. Howe, *ibid.*, pp. 374-382.
4. D. F. Peterson, *ibid.*, pp. 398-405.
5. G. Young, *ibid.*, pp. 382-397.
6. N. Wollman *et al.*, *The Value of Water in Alternate Uses* (Univ. of New Mexico Press, Albuquerque, 1962).
7. L. E. Partain, in *Contours of Change: The Yearbook of Agriculture 1970* (Government Printing Office, Washington, D.C., 1970), pp. 189-196.
8. R. F. Daly, *ibid.*, pp. 342-346.
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10. *The California Water Plan* (Bulletin No. 3, Department of Water Resources, State of California, Sacramento, 1957), pp. 217-218.

Forthcoming Events

March

7-9. **Vertebrate Pest Conf.**, 5th, Fresno, Calif. (R. E. Marsh, Dept. of Animal Physiology, Univ. of California, Davis 95616)

7-10. **Computer Graphics in Medicine**, Assoc. for Computing Machinery, Pittsburgh, Pa. (Dept. of Computer Information Science, Point Park College, 201 Wood St., Pittsburgh, Pa. 15222)

10-12. **National Wildlife Federation**, Mexico City, Mexico. (T. L. Kimball, NWF, 1412 16th St., NW, Washington, D.C. 20036)

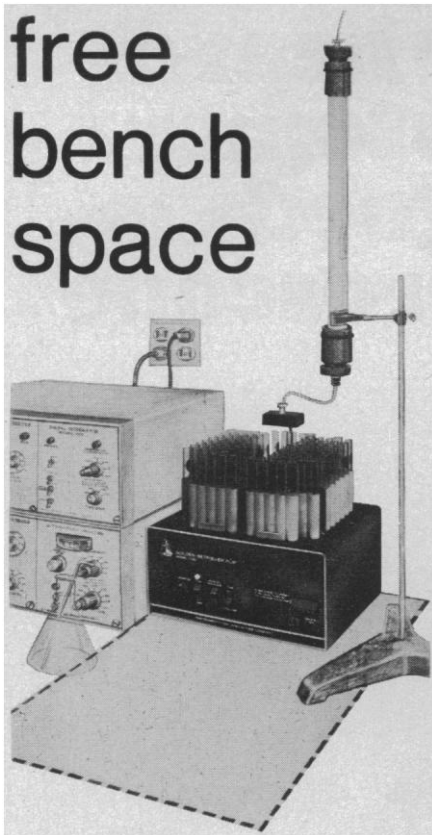
11-14. **American Assoc. of Pathologists and Bacteriologists**, 68th annual, Cincinnati, Ohio. (Miss J. Graves, Intersociety

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Committee on Pathology Information, Inc., 9650 Rockville Pike, Bethesda, Md. 20014)

11-18. American Assoc. of **Pathologists and Bacteriologists**, American Assoc. of **Neuropathologists**, and **Pediatric Pathology Club** (joint), Cincinnati, Ohio. (A. J. French, 1335 E. Catherine St., Ann Arbor, Mich. 48104)

12-17. American Soc. of **Photogrammetry**, Washington, D.C. (L. P. Jacobs, 105 N. Virginia Ave., Falls Church, Va. 20046)

13-14. American **Astronautical Soc.**, Washington, D.C. (Miss A. Mitchell, AAS, Suite 700, 1629 K St., NW, Washington, D.C. 20006)

13-17. International Union against **Cancer Conf.** (melanoma and skin cancer, leukemia), Sydney, Australia. (Intern. Cancer Conf., GPO Box 475, Sydney, NSW)

13-17. California **Membrane Conf.**, Squaw Valley. (C. F. Fox, Dept. of Bacteriology, Univ. of California, Los Angeles 90024)

14-16. **Mineral Waste Utilization**, 3rd symp., U.S. Bureau of Mines and IIT Research Inst., Chicago, Ill. (M. A. Schwartz, IIT Research Inst., 10 W. 35 St., Chicago 60616)

14-18. International Acad. of **Pathology**, 61st annual, Cincinnati, Ohio. (Miss J. Graves, Intersociety Committee on Pathology Information, Inc., 9650 Rockville Pike, Bethesda, Md. 20014)

19-22. American Soc. of **Limnology and Oceanography**, Tallahassee, Fla. (G. W. Saunders, Jr., Dept. of Zoology, Univ. of Michigan, Ann Arbor 48104)

19-25. Council for **Exceptional Children**, 50th annual intern. conv., Washington, D.C. (W. C. Geer, CEC, Suite 900, Jefferson Plaza, 1411 S. Jefferson Davis Highway, Arlington, Va. 22202)

20-22. **Physical Electronics Conf.**, 32nd annual, Albuquerque, N.M. (R. L. Schwoebel, Dept. 5330, Sandia Labs., Albuquerque 87115)

20-23. American Assoc. of **Dental Schools**, Las Vegas, Nev. (B. F. Miller, 211 E. Chicago Ave., Chicago, Ill. 60611)

20-23. Institute of **Electrical and Electronics Engineers**, New York, N.Y. (D. G. Fink, IEEE, 345 E. 47 St., New York 10017)

20-23. American Soc. of **Neurochemistry**, 3rd natl., Seattle, Wash. (W. L. Stahl, Dept. of Medicine (Neurology), School of Medicine, Univ. of Washington, Seattle 98105)

20-24. Use of **Isotopes in Studies on the Physiology of Domestic Animals** with Special Reference to Hot Climates, Intern. Atomic Energy Agency, Athens, Greece. (J. H. Kane, Div. of Technical Information, U.S. Atomic Energy Commission, Washington, D.C. 20545)

21-23. **Control of Hazardous Material Spills Conf.**, Houston, Tex. (H. N. Myrick, Univ. of Houston, 3801 Cullen Blvd., Houston 77004)

23-25. **Quality of Life**, American Medical Assoc., Chicago, Ill. (E. O. Ellis, AMA, 535 N. Dearborn St., Chicago 60610)

23-25. American **Philosophical Assoc.**, San Francisco, Calif. (A. Pasch, APA,

117 Lehigh Road, College Park, Md. 20742)

23-25. **Seismological Soc. of America**, Honolulu, Hawaii. (D. Tocher, P.O. Box 826, Berkeley, Calif. 94701)

23-26. International Assoc. for **Dental Research**, North American Div., Las Vegas, Nev. (A. R. Frechette, IADR, 211 E. Chicago Ave., Chicago, Ill. 60611)

25-26. Symposium on **Viral Hepatitis and Blood Transfusion**, San Francisco, Calif. (G. N. Vyas, Continuing Education in Health Sciences, Univ. of California, San Francisco 94122)

26-29. **Environmental Mutagen Soc.**, Cherry Hill, N.J. (W. W. Nichols, Inst. for Medical Research, Copewood St., Camden, N.J. 08103)

27-29. **Electronics in Medicine**, 4th natl. conf., Chicago, Ill. (D. S. Rubin, *Medical World News*, 299 Park Ave., New York 10017)

27-30. **Meteorological Observations and Instrumentation**, 3rd symp., Air Force Cambridge Research Labs., San Diego, Calif. (A. S. Carten, Jr., AFCRL (LX/1124), L. G. Hanscom Field, Bedford, Mass.)

April

3-6. National Assoc. for **Research in Science Teaching**, Chicago, Ill. (R. W. Lefler, Dept. of Physics, Purdue Univ., Lafayette, Ind. 47907)

3-7. American **Educational Research Assoc.**, Chicago, Ill. (R. A. Dersheimer, AERA, 1126 16th St., NW, Washington, D.C. 20036)

3-8. American College of **Radiology**, Bal Harbour, Fla. (W. C. Tronach, ACR, 20 N. Wacker Dr., Chicago, Ill. 60606)

4-6. Symposium on **Computer-Communications Networks and Teletraffic**, 22nd annual intern. symp., New York, N.Y. (J. Fox, Polytechnic Inst. of Brooklyn, MRI Symp. Committee, 333 Jay St., Brooklyn, N.Y. 11201)

4-7. American Assoc. of **Anatomists**, Dallas, Tex. (R. T. Woodburne, Dept. of Anatomy, 4643 Medical Science II, Univ. of Michigan, Ann Arbor 48104)

4-8. Institute of **Management Sciences**, Houston, Tex. (Mrs. M. R. DeMelim, IMS, 146 Westminster St., Providence, R.I.)

5-7. **Reliability Physics Symp.**, 10th annual, Inst. of Electrical and Electronics Engineers, Las Vegas, Nev. (H. Lauffenburger, IITRI, 10 W. 35 St., Chicago, Ill. 60616)

5-7. **Phase Analysis: Identification and Quantitative Determination**, Hull, England. (Meetings Officer, Inst. of Physics, 47 Belgrave Sq., London SW1X 8QX)

5-8. American **Orthopsychiatric Assoc.**, 49th annual, Detroit, Mich. (Miss M. F. Langer, AOA, 1790 Broadway, New York 10019)

5-9. American **Ethnological Soc.**, Montreal, P.Q., Canada. (J. M. Collins, State Univ. of New York at Buffalo, 1300 Elmwood Ave., Buffalo, N.Y. 14222)

5-9. **Learning and Culture**, Soc. for Applied Anthropology, American Ethnological Soc., and Council on Anthropology and Education (joint), Montreal, Canada.

(Miss N. Gonzalez, Dept. of Anthropology, Univ. of Iowa, Iowa City)

6-8. Florida Acad. of Sciences, Winter Park. (R. W. Long, Dept. of Biology, Univ. of South Florida, Tampa 33620)

6-8. Association of Southeastern Biologists, Mobile, Ala. (Miss M. L. Gilbert, Biology Dept., Florida Southern College, Lakeland 33802)

7-8. Two-Year College Chemistry Conf., 12th annual natl., Boston, Mass. (W. T. Mooney, Jr., Dept. of Chemistry, El Camino College, 16007 S. Crenshaw Blvd., Torrance, Calif. 90506)

7-11. National Science Teachers Assoc., New York, N.Y. (R. H. Carleton, NSTA, 1201 16th St., Washington, D.C. 20036)

8-12. American Astronomical Soc., Seattle, Wash. (H. M. Gurin, AAS, 211 FitzRandolph Rd., Princeton, N.J. 08540)

9-14. American Soc. of Biological Chemists, Atlantic City, N.J. (R. A. Harte, ASBC, 9650 Rockville Pike, Bethesda, Md. 20014)

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9-14. American Soc. of Pharmacology and Experimental Therapeutics, Atlantic City, N.J. (E. B. Cook, ASPET, 9640 Rockville Pike, Bethesda, Md. 20014)

10-12. Acoustical Holography, 4th intern. symp., Inst. of Electrical and Electronics Engineers, Inc., Santa Barbara, Calif. (Meetings Officer, IEEE, 345 E. 47 St., New York 10017)

10-13. International Conf. on Magnetism (Intermag), 10th, Inst. of Electrical and Electronics Engineers, Kyoto, Japan. (D. H. Looney, Bell Telephone Laboratories, Inc., Whippany, N.J. 07981)

10-14. Modern Trends in Activation Analysis, 4th intern. conf., Saclay, France. (P. L. Leveque, Centre d'Etudes Nucléaires de Saclay, B. P. No. 2, 91-Gif-sur-Yvette, France)

10-14. American Assoc. of Immunologists, Atlantic City, N.J. (Mrs. B. B. Reines, AAI, 9650 Rockville Pike, Bethesda, Md. 20014)

10-14. Nuclear Activation Techniques in the Life Sciences, Intern. Atomic Energy Agency, Ljubljana, Yugoslavia. (IAEE, Kärntnerring 11-13, A-1011 Vienna, Austria)

11-13. Conference on Phosphorus in Fresh Water and the Marine Environment, Intern. Assoc. on Water Pollution Research, London, England. (K. J. Ives, Dept. of Civil and Municipal Engineering, University College, London, W.C.1)

11-14. Optical Soc. of America, New York, N.Y. (Miss M. E. Waga, OSA, 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

12-14. Machine Perception of Patterns and Pictures, Teddington, Middlesex, England. (Meetings Officer, Inst. of Physics

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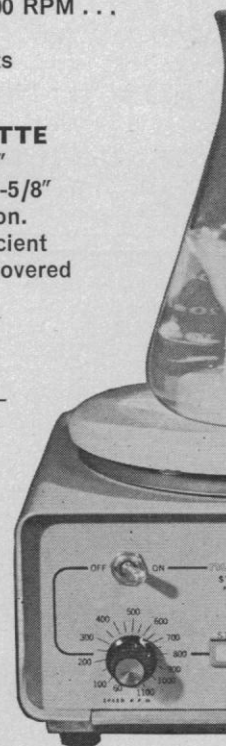
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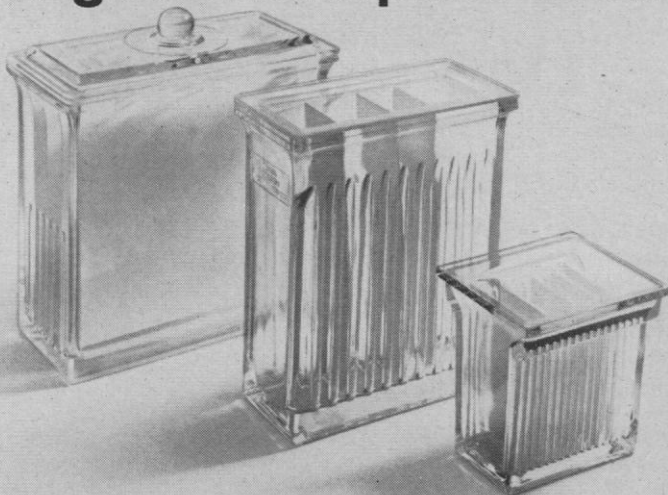
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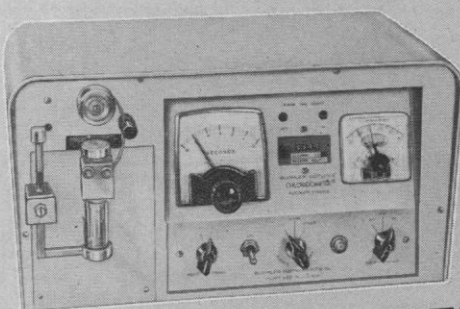
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13-15. American Assoc. of **Physical Anthropologists**, Lawrence, Kans. (E. I. Fry, Box 339, Southern Methodist Univ., Dallas, Tex. 75222)

13-15. **Population** Assoc. of America, Toronto, Ont., Canada. (J. W. Brackett, PAA, P.O. Box 14182, Benjamin Franklin Sta., Washington, D.C. 20044)

14. **Utah Acad. of Sciences, Arts and Letters**, Provo. (K. T. Slack, Marriott Library, Univ. of Utah, Salt Lake City 84112)

14-16. American **Psychosomatic Soc.**, 29th annual, Boston, Mass. (H. Weiner, APS, 265 Nassau Rd., Roosevelt, N.Y. 11575)

15-18. International **Filter Symp.**, Los Angeles, Calif. (G. C. Temes, 7732 Boelter Hall, Univ. of California, Los Angeles 90024)

16-19. National Council of **Teachers of Mathematics**, 50th annual, Chicago, Ill. (J. D. Gates, NCTM, 1201 16th St., Washington, D.C. 20036)

16-20. American Assoc. of **Cereal Chemists**, St. Louis, Mo. (R. J. Tarleton, 1821 University Ave., St. Paul, Minn. 55104)

16-20. American Assoc. of **Immunologists**, Atlantic City, N.J. (H. Metzger, 9650 Rockville Pike, Bethesda, Md. 20014)

17-19. Society of **Economic Paleontologists and Mineralogists**, Denver, Colo. (Mrs. R. Tener, P.O. Box 979, Tulsa, Okla. 74101)

17-19. American Assoc. of **Petroleum Geologists**, Denver, Colo. (N. C. Smith, Box 979, Tulsa, Okla. 74101)

17-20. **Atomic and Molecular Physics** Conf., 4th, Sussex, England. (Meetings Officer, Inst. of Physics, 47 Belgrave Sq., London SW1X 8QX)

17-20. **Medical Advisers in the Pharmaceutical Industry**, intern. conf., London, England. (W. L. Burland, Conf. Management, 29 Old Bond St., London, W.1)

17-21. **Dosimetry Techniques Applied to Agriculture, Industry, Biology and Medicine**, Intern. Atomic Energy Agency, Prague, Czechoslovakia. (J. H. Kane, Div. of Technical Information, U.S. Atomic Energy Commission, Washington, D.C. 20545)

17-21. **Inner Shell Ionization Phenomena**, intern. conf., Atlanta, Ga. (R. W. Fink, School of Chemistry, Georgia Inst. of Technology, Atlanta 30332)

18-21. **Acoustical** Soc. of America, Buffalo, N.Y. (Miss B. H. Goodfriend, ASA, 335 E. 45 St., New York 10017)

20-22. Louisiana **Acad. of Sciences**, Baton Rouge. (B. F. Dowden, Dept. of Biological Sciences, Louisiana State Univ., Shreveport 71105)

20-22. Ohio **Acad. of Science**, Marietta. (J. H. Melvin, OAS, 445 King Ave., Columbus)

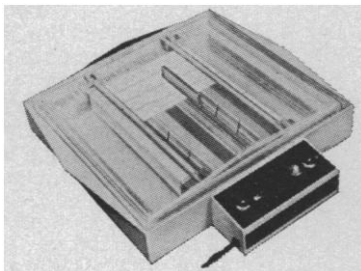
20-22. American Assoc. of Colleges of **Pharmacy**, Houston, Tex. (C. W. Bliven, AACP, 850 Sligo Ave., Silver Spring, Md. 20910)

20-23. Cooper **Ornithological Soc.**, Las Cruces, N.M. (W. H. Behle, Dept. of Biology, Univ. of Utah, Salt Lake City 84112)

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21-22. North Carolina Acad. of Science, Greenville. (J. G. Boyette, Dept. of Biology, East Carolina Univ., Greenville, 27834)

21-22. Modern Optics, American Physical Soc., New York State Section, Poughkeepsie, N.Y. (D. T. Teaney, IBM Research Center, P.O. Box 218, Yorktown Heights, N.Y. 10598)

22. American Soc. of Hospital Pharmacists, Houston, Tex. (J. A. Oddis, 4630 Montgomery Ave., Bethesda, Md. 20014)

22-28. American Pharmaceutical Assoc., Houston, Tex. (W. S. Apple, APA, 2215 Constitution Ave., NW, Washington, D.C.)

23-24. Congress on Environmental Health, American Medical Assoc., Los Angeles, Calif. (F. W. Barton, Council on Environmental and Public Health, 535 N. Dearborn St., Chicago, Ill. 60610)

23-26. Association of American Geographers, Kansas City, Kan. (J. W. Nystrom, AAG, 1146 16th St., NW, Washington, D.C. 20036)

23-26. American Oil Chemists' Soc., Los Angeles, Calif. (J. C. Lyon, 508 S. 6 St., Champaign, Ill. 61820)

23-28. American Soc. for Microbiology, Philadelphia, Pa. (R. W. Sarber, ASM, 1913 Eye St., NW, Washington, D.C. 20006)

24-26. Speech Communications and Processing, Inst. of Electrical and Electronics Engineers, Inc., Boston, Mass. (W. D. Chapman, IBM Corp., P.O. Box 12275, Dept. E82, Bldg. 060, Research Triangle Park, N.C. 27709)

24-26. Frontiers in Education, Inst. of Electrical and Electronics Engineers, Inc., Tucson, Ariz. (IEEE, 345 E. 47 St., New York 10017)

24-26. Reactor Materials Performance, American Nuclear Soc., Richland, Wash. (T. T. Claudson, Pacific Northwest Lab., Battelle Memorial Inst., P.O. Box 999, Richland 99352)

24-27. Chemical Vapor Deposition, American Nuclear Soc., Salt Lake City, Utah. (F. A. Glaski, Fansteel Inc., 10258 Norris Ave., Pacoima, Calif. 91331)

24-27. American Physical Soc., Washington, D.C. (W. W. Havens, Jr., APS, 335 E. 45 St., New York 10017)

24-28. Society of Manufacturing Engineers, Chicago, Ill. (R. W. Taylor, 20501 Ford Rd., Dearborn, Mich. 48128)

24-28. Inter-American Congr. of Cardiology, San Francisco, Calif. (A. M. Bennett, American Heart Assoc., 44 E. 23 St., New York 10019)

24-29. American Acad. of Neurology, Palm Beach, Fla. (C. N. Patterson, 1110 W. Main St., Durham, N.C. 27701)

24-6. Psychotherapy Week, 22nd, Assoc. for Psychotherapeutic Training, Lindau, Germany. (H. Stolze, Lindauer Psychotherapiewochen, Adalbert-Stifterstrasse 31, D-8 Munchen 81, Germany)

26-28. Biometric Soc., Eastern North American regional, Ames, Iowa. (F. B. Cady, Jr., Biometric Unit, 337 Warren Hall, Cornell Univ., Ithaca, N.Y. 14850)