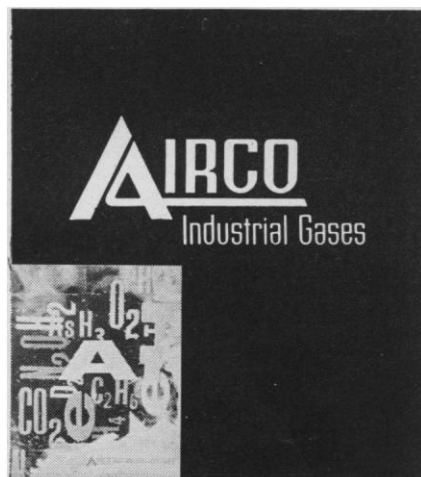


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resources through harvesting, conservation, and development. Early in the discussions the importance of shallow water environments (fresh water, estuarine, and marine) was established. Over 90 percent of the world fish catch is taken from shallow marine waters, which constitute only 7.6 percent of the ocean's surface. One-half of all marine fisheries are in the near-coastal regions, which are dependent upon estuaries for their sustained stability.

Other general discussions during the first day included such topics as the economic importance of freshwater algae and aquatic invertebrates as new sources of drugs and biologically active agents. The distribution of coastal biota as related to commercial and recreational fishery resources was also discussed. Other speakers discussed engineering aspects in protection of the aquatic environment and the need for the conservation of marine species and areas. A change in political attitudes was listed as a necessary first step toward conservation and development.

During the second day aquatic bioresources were considered in relation to their environment. A general concept conveyed by ten of the twelve speakers was that changes in environmental quality produced by the cultural activities of man were the greatest threat to bioresources. In an excellent paper on eutrophication, several cases were indicated in which the aging of a body of water had actually been reversed when pollution had been diverted or eliminated. One of the most controversial papers de-emphasized the presence of phosphorus and nitrogen as a principal agent in eutrophication and indicted carbon dioxide as a causative factor in promoting growth of algal blooms.

The measurement and detection of bioresources were considered during the third day of the symposium. Methods of remote sensing were introduced by informative papers on aerial photographic methods and infrared and multi-spectral techniques. The practical application and accuracy of these methods were illustrated by five other speakers. New procedures in bioresources study were described during the afternoon.

The production of harvestable materials from the oceans and fresh waters has tripled in the past two decades, and the present production can be substantially increased without exceeding sustainable yield and without including possible production from aquaculture. The potential increase in ocean productivity will result largely from utilization

of presently unexploited and underexploited species and areas and in international cooperation for the prevention of overexploitation.

Even though it is generally agreed that the "seas" can furnish vastly more food and materials for humans than is presently being taken, there are limits to production as there are limits to shallow-water environments. A definite threat exists to aquatic bioresources in the impact of the ever-expanding human population on the delicate ecological balance. The maintenance and improvement of environmental quality is a must for the continuation of increased aquatic production.

PHILLIP E. GREESON
Water Resources Division,
U.S. Geological Survey,
P.O. Box 948,
Albany, New York 12201

Note

1. The proceedings of the symposium will be available from the American Water Resources Association, P.O. Box 434, Urbana, Illinois 61801.

Forthcoming Events

November

11-13. **Geological Soc. of America**, 83rd annual, Milwaukee, Wis. (L. M. Cline, GSA, P.O. Box 1719, Boulder, Colo. 80302)

11-14. **Seismological Soc. of America**, Milwaukee, Wis. (D. Tocher, P.O. Box 826, Berkeley, Calif. 94701)

12-15. **American Heart Assoc.**, 43rd annual scientific sessions, Atlantic City, N.J. (AHA, 44 E. 23 St., New York 10010)

15-19. **Engineering in Medicine and Biology**, 23rd conf., Washington, D.C. (R. Johns, 522 Traylor Bldg., Johns Hopkins School of Medicine, Baltimore, Md. 21205)

15-19. **American Nuclear Soc.**, Washington, D.C. (J. Stouky, NUS Corp., 2351 Research Blvd., Rockville, Md. 20850)

16-17. **American Petroleum Inst.**, 50th annual, New York, N.Y. (H. A. Fondu, 1271 Avenue of the Americas, New York 10020)

16-18. **Chemical Marketing Research Assoc.**, San Francisco, Calif. (C. W. Slade, Jr., Chemical Marketing Research Assoc., 100 Church St., New York 10007)

16-19. **Society of Vertebrate Paleontology**, Toronto, Ont., Canada. (J. H. Osstrom, Yale Peabody Museum, 170 Whitney Ave., New Haven, Conn. 06520)

17-19. **Fall Joint Computer Conf.**, 7th annual, Houston, Tex. (B. Pollard, RCA-NPL, 200 Forest St., Marlboro, Mass. 01752)

17-20. **Magnetism and Magnetic Materials**, 16th annual conf., Miami Beach, Fla. (H. C. Wolfe, American Inst. of Physics, 335 E. 45 St., New York 10017)

17-22. Pan American **Medical Assoc.**, 45th, Hollywood Beach, Fla. (J. Eller, 745 Fifth Avenue, New York 10022)

18-20. Eastern **Analytical Symp.**, New York, N.Y. (D. A. Pragay, P.O. Box 38, Buffalo, N.Y. 14215)

18-20. **Brain Chemistry and Mental Disease**, 4th annual intern. symp., Houston, Tex. (B. T. Ho, TRIMS, 1300 Moursund Ave., Houston 77025)

18-20. National Assoc. for **Mental Health**, Los Angeles, Calif. (NAMH, 10 Columbus Circle, New York 10019)

18-20. **Hamster Pathology**, Boston, Mass. (F. Homburger, Bio-Research Inst., Inc., 9 Commercial Ave., Cambridge, Mass. 02141)

18-20. National Assoc. of **Police Labs.** and the Bureau of **Narcotics and Dangerous Drugs**, New York, N.Y. (Lt. F. Fernandez, Suffolk County Police Dept. Lab., Veteran's Highway, Hauppauge, N.Y. 11787)

19-20. American Assoc. for **Automotive Medicine**, Ann Arbor, Mich. (J. L. Weygandt, 716 Monroe St., Sheboygan Falls, Wis. 53085)

19-20. **Biomedical Materials**, London, England. (Meetings Officer, Inst. of Physics and The Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

19-20. **Cancer Conf.**, Houston, Tex. (F. Goff, M. D. Anderson Hospital, Univ. of Texas, Houston)

19-20. Conflicts in **Water Resources Planning**, What are the Remedies?, Aus-

tin, Tex. (S. Ferguson, Center for Research in Water Resources, Balcones Research Center, Route 4, Box 189, Austin 78757)

19-22. American **Anthropological Assoc.**, San Diego, Calif. (E. J. Lehman, Executive Director, AAA, 1703 New Hampshire Ave., NW, Washington, D.C. 20009)

19-22. Society for **Psycho-physiological Research**, New Orleans, La. (L. H. Miller, Louisiana State Univ. Medical Center, 1542 Tulane Ave., New Orleans 70112)

20-21. Tennessee Acad. of **Science**, Memphis, Tenn. (J. D. Caponetti, Dept. of Botany, Univ. of Tennessee, Knoxville 37916)

20-23. American **Speech and Hearing Assoc.**, New York, N.Y. (K. O. Johnson, ASHA, 9030 Old Georgetown Rd., Washington, D.C. 20014)

21-24. Association of Schools of **Allied Health Professions**, 3rd annual, Chicago, Ill. (J. Von Bargen, Suite 300, 1 Dupont Circle, NW, Washington, D.C. 20036)

23-25. American Physical Soc., Div. of **Fluid Dynamics**, 23rd, Charlottesville, Va. (Y. H. Pao, Boeing Scientific Research Labs., P.O. Box 3981, Seattle, Wash. 98124)

25-28. International Symp. on **Chemotherapy of Tuberculosis**, 2nd, Buenos Aires, Argentina. (J. L. Marchese, Sanchez de Bustamante Str., 2144, Buenos Aires)

26-28. Central Assoc. of **Science and Mathematics Teachers**, Chicago, Ill. (D. R. Winslow, P.O. Box 246, Bloomington, Ind. 47401)

26-29. National Council for **Geographic Education**, Detroit, Mich. (L. Mitchell, NCGE, 111 W. Washington St., Chicago, Ill. 60602)

27-29. **Abortion, Family Planning and Sex Education**, 5th annual intern. symp., Boston, Mass. (H. Ratner, Natl. Commission on Human Life, Reproduction and Rhythm, P.O. Box 31, Oak Park, Ill. 60303)

29-30. International **Exchange of Technology**, Research Triangle Park, N.C. (G. R. Herbert, Research Triangle Inst., P.O. Box 12194, Research Triangle Park 27709)

29-2. American **Medical Assoc.** (clinical conv.), Boston, Mass. (E. B. Howard, AMA, 535 N. Dearborn St., Chicago, Ill. 60610)

29-3. American Inst. of **Chemical Engineers**, Chicago, Ill. (F. J. Van Antwerpen, AIChE, 345 E. 47 St., New York 10017)

29-3. Association of **Military Surgeons** of the United States, Washington, D.C. (F. E. Wilson, AMSUS, 8502 Connecticut Ave., Chevy Chase, Md. 20015)

29-4. American Soc. of **Mechanical Engineers**, New York, N.Y. (A. B. Conlin, Jr., Technical Dept., ASME, 345 E. 47 St., New York 10017)

29-4. **Radiological Soc.** of North America, Chicago, Ill. (M. D. Frazer, RSNA, Inc., 713 E. Genesee St., Syracuse, N.Y. 13210)

30-2. Conference on the **Fatigue Problem**, Detroit, Mich. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio)

30-3. **Entomological Soc.** of America, Miami Beach, Fla. (W. P. Murdoch, 4603 Calvert Rd., College Park, Md. 20740)

30-4. **Engineering Materials and Design**, intern. exhibition and trade fair, London, England. (Industrial and Trade Fairs, Ltd., Commonwealth House, New Oxford St., London, W.C.1, England)

December

1-3. **Problems of Electroplating**, 3rd symp., Budapest, Hungary. (Scientific Soc. of Mechanical Engineers, Szabadsag Ter. 17, Budapest)

1-6. **Radiological Soc.** of North America, Chicago, Ill. (M. D. Frazier, 713 E. Genesee St., Syracuse, N.Y. 13210)

1-7. International **Hospital Federation**, 2nd, San Jose, Costa Rica. (J. Gonzalez, Pan American Office, 1 Farragut Sq., South, Washington, D.C. 20006)

1-8. International Symp. on the Results of **Research on Representative and Experimental Basins**, Wellington, New Zealand. (L. A. Heindl, Royal Soc. of New Zealand, P.O. Box 196, Wellington)

2-3. **Materials/Process Selection**, Phase II, Cleveland, Ohio. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

2-4. **Vehicular Technology**, 21st conf., Washington, D.C. (P. M. Kelly, Kelly Scientific Corp., 3900 Wisconsin Ave., NW, Washington, D.C. 20016)

2-9. Management of **Emotional Problems in the Older Person**, New York, N.Y.

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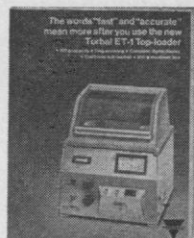
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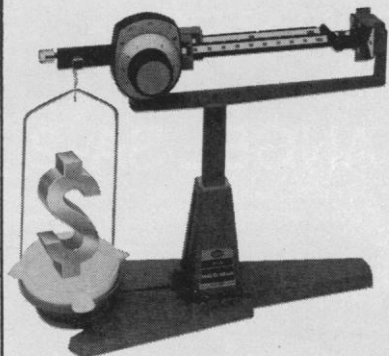


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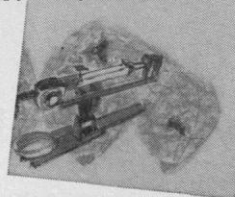
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(H. Gershman, American Inst. for Psychoanalysis, 329 E. 62 St., New York 10021)

3-4. Conference on **Clinical Pharmacology**, Washington, D.C. (L. I. Goldberg, Emory Univ. School of Medicine, Atlanta, Ga.)

4. American Assoc. of **Physicists in Medicine**, Chicago, Ill. (M. Rozenfeld, Argonne Hospital, 950 E. 59 St., Chicago 60637)

4-6. American Acad. of **Psychoanalysis**, New York, N.Y. (J. B. Miller, AAP, 510 E. 86 St., New York 10028)

5-10. American Acad. of **Dermatology**, Chicago, Ill. (F. A. J. Kingery, 2250 Northwest Flanders, Portland, Ore. 97201)

6. American Soc. of **Hospital Pharmacists**, 5th annual, Anaheim, Calif. (W. E. McConnell, Dept. of Education and Training, 4630 Montgomery Ave., Washington, D.C. 20014)

6-8. American Soc. of **Hematology**, San Juan, Puerto Rico. (F. H. Gardner, Presbyterian-Univ. of Pennsylvania Medical Center, Philadelphia 19104)

6-10. Association of **State and Territorial Health Officers**, Washington, D.C. (N. J. Swearingen, 128 C St., NE, Washington, D.C. 20002)

6-11. International **Clean Air Congr.**, 2nd, Washington, D.C. (A. Arch, Air Pollution Control Assoc., 4400 Fifth Ave., Pittsburgh, Pa. 15213)

6-11. Pan American Congr. of **Rheumatology**, 5th, Punta del Este, Uruguay. (H. Havranek, Hospital Maciel, Calle 25 de Mayo 174, Montevideo, Uruguay)

7-8. **Myasthenia Gravis**, New York, N.Y. (R. J. Johns, Johns Hopkins Univ. Baltimore, Md.)

7-9. **Adaptive Processes Decision and Control Symp.**, Austin, Tex. (D. G. Lainiotis, Electrical Research Center, Univ. of Texas, Austin 78712)

7-9. **Ceramics in Severe Environments**, Raleigh, N.C. (W. W. Kriegel, Engineering Information Office, North Carolina State Univ., Box 5125, Raleigh 27607)

7-9. National **Electronics Conf. and Exhibition**, 26th annual, Chicago, Ill. (R. Klich, Natl. Electronics Conference, Inc., Oakbrook Executive Plaza No. 2, 1211 W. 22 St., Oak Brook, Ill. 60521)

7-9. Southern **Surgical Assoc.**, Boca Raton, Fla. (D. C. Sabiston, Duke Univ. Medical Center, Durham, N.C. 27706)

7-10. American **Astronomical Soc.**, Tampa, Fla. (H. M. Gurin, 211 Fitz Randolph Rd., Princeton, N.J. 08540)

7-10. American **Geophysical Union**, San Francisco, Calif. (A. F. Spilhaus, Jr., AGU, 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

7-11. **Elements of Ferrous Metallurgy**, 4th, Toronto, Canada. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

7-11. Greater New York **Dental Mtg.**, 46th annual, New York, N.Y. (H. M. Harrison, Room 106-A, Statler Hilton, New York 10001)

7-12. **Plant Growth Substances**, 7th intern conf., Canberra, Australia. (P. D. O'Connor, Australian Acad. of Science, Gordon St., Canberra City, A.C.T. 2601)

8-10. North Central **Weed Control Conf. Inc.**, Lexington, Ky. (E. L. Knake, Agronomy Dept., Univ. of Illinois, Urbana 61801)

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8-11. American Soc. of **Agricultural Engineers**, Chicago, Ill. (J. L. Butt, P.O. Box 229, St. Joseph, Mich. 49085)

9-11. Conference on **Application of Simulation**, New York, N.Y. (M. Araten, Celanese Chemical Co., 245 Park Ave., New York 10017)

9-12. American Acad. for **Cerebral Palsy**, Houston, Tex. (G. Solomons, University Hospitals, Iowa City, Iowa 52240)

10. American Acad. of **Optometry**, Miami Beach, Fla. (C. C. Koch, 214-215 Foshay Tower, Minneapolis, Minn. 55402)

10-11. Symposium on **Molecular Mechanism of Drug Action**, Lucknow, India. (C. R. Krishna Murti, Div. of Biochemistry, Central Drug Research Inst., Chattar Manzil Palace, Lucknow)

10-12. American Heart Assoc. Council of **Clinical Cardiology**, 11th, Miami, Fla. (Mrs. J. Baxter, 5080 Biscayne Rd., Miami, Fla. 33137)

10-16. New York State Soc. of **Anesthesiologists** (Postgraduate Assembly), New York, N.Y. (Mrs. E. C. Sinsi, 30 E. 42 St., New York 10017)

11-12. American Federation for **Clinical Research**, New York, N.Y. (R. A. Rifkind, College of Physicians and Surgeons, 630 W. 168 St., New York 10032)

11-15. National Federation of **Catholic Physicians**, Washington, D.C. (H. R. Herzog, 2825 N. Mayfair Rd., Milwaukee, Wis. 53222)

14-15. British **Biophysical Soc.**, London, England. (E. M. Bradbury, Biophysics Lab., Physics Dept., College of Technology, Park Rd., Portsmouth, England PO1 2DZ)

14-16. Institute of Electrical and Electronics Engineers, intern. symp. on **Circuit Theory**, Atlanta, Ga. (I. T. Frisch, Network Analysis Corp., Beechwood, Old Tappan Rd., Glen Cove, N.Y., 11542)

14-16. **Flow Properties of Metals**, Chicago, Ill. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

14-18. Texas Symp. on **Relativistic Astrophysics**, 5th, Austin. (L. C. Shepley, Physics Dept., Univ. of Texas, Austin 78712)

14-18. **Solid State Physics**, 6th conf., Reading, England. (Inst. of Physics and the Physical Soc., 47 Belgrade Sq., London S.W.1, England)

17-20. American **Psychoanalytic Assoc.**, New York, N.Y. (Mrs. H. Fischer, APA, 1 E. 57 St., New York 10022)

26-29. Society for the **History of Technology**, Chicago, Ill. (M. Kranzberg, Crawford Hall, Case Western Reserve Univ., Cleveland, Ohio 44106)

26-30. Western Soc. of **Naturalists**, Honolulu, Hawaii. (D. H. Montgomery, Dept. of Biological Sciences, California Poly State College, San Luis Obispo 94301)

26-30. Society of **Systematic Zoology**, Chicago, Ill. (G. I. Stage, Dept. of Entomology, Natl. Museum of Natural History, Washington, D.C. 20560)

26-31. American Assoc. for the **Advancement of Science**, 137th annual, Chicago, Ill. (D. W. Thornhill, AAAS, 1515 Massachusetts Ave., NW, Washington, D.C. 20005)

26-31. Society for **General Systems Research**, Chicago, Ill. (R. F. Ericson, 2100 Pennsylvania Ave., NW, Rm 818, Washington, D.C. 20006)



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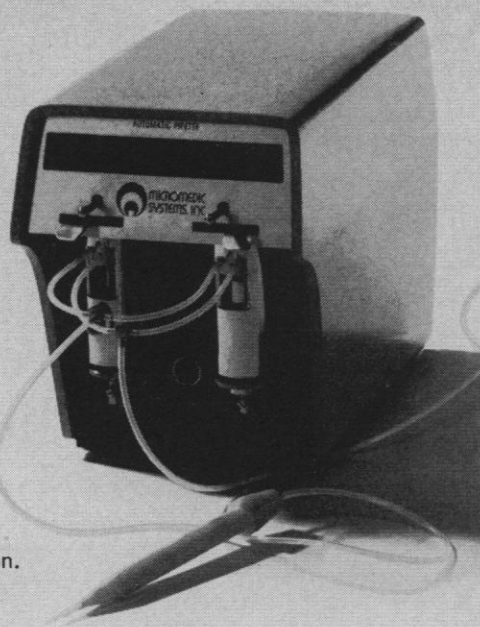
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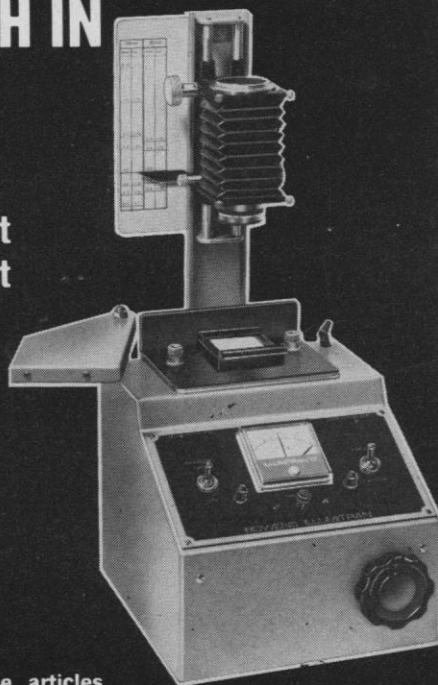
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26-31. American Nature Study Soc. Chicago, Ill. (Mrs. J. Geisler, Milewood Rd., Verbank, N.Y. 12585)

26-31. American Soc. of Zoologists, Chicago, Ill. (G. Sprugel, Jr., Illinois Natural History Survey, 179 Natural Resources Bldg., Urbana 61801)

27. National Assoc. of Science Writers, Chicago, Ill. (Mrs. R. Arctander, Box H, Sea Cliff, N.Y. 11579)

27-30. Archaeological Inst. of America, 72nd annual, New York, N.Y. (J. S. Ord, AIA, 260 West Broadway, New York 10013)

27-30. Biometric Soc., eastern North American regional, Detroit, Mich. (D. G. Gosslee, P.O. Box 713, Oak Ridge, Tenn. 37830)

27-30. Sigma Delta Epsilon, Chicago, Ill. (M. A. Myers, 6234 Mary Lane Dr., San Diego, Calif. 92115)

27-30. American Statistical Assoc., 130th, Detroit, Mich. (J. W. Lehman, ASA, 806 15th St., NW, Washington, D.C. 20005)

28-30. American Economic Assoc., Detroit, Mich. (H. F. Williamson, 629 Noyes St., Evanston, Ill. 60201)

28-30. History of Science Study, Chicago, Ill. (J. C. Greene, Dept. of History, Univ. of Connecticut, Storrs 06268)

28-30. Linguistic Soc. of America, Washington, D.C. (T. A. Sebeok, Patton House, Indiana Univ., 516 E. Sixth St., Bloomington, Ind. 47401)

28-31. Metric Assoc., Chicago, Ill. (L. F. Sokol, 624 N. Drury Lane, Arlington Heights, Ill. 60004)

28-31. American Physical Soc., Stanford, Calif. (W. W. Havens, Jr., 335 E. 45 St., New York 10017)

28-31. Symposium on Upper Mantle Project, 2nd, Hyderabad, India. (S. Balakrishna, Natl. Geophysical Research Inst., Hyderabad-7)

January

2-21. American College of Surgeons, scientific winter cruise, San Juan, Puerto Rico; Caracas, Venezuela; and Panama City (American College of Surgeons, 55 E. Erie St., Chicago, Ill. 60611)

3-8. Symposium on Hibernation-Hypothermia, Snowmass (Aspen), Colo. (F. E. South, Space Sciences Research Center, Univ. of Missouri, Columbia 65201)

3-9. Indian Science Congr. Assoc., 58th annual, Calcutta. (M. Nagaraj, Dean, Faculty of Science, Bangalore Univ., Bangalore-1, India)

4-7. Solid State Physics and Applications, Boca Raton, Fla. (J. S. Blakemore, Physics Dept., Florida Atlantic Univ., Boca Raton 33432)

5-7. Solid State Physics, 8th annual, Manchester, England. (Meetings Officer, Inst. of Physics and The Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

6-9. American Rheumatism Assoc., Washington, D.C. (Miss M. M. Walsh, Arthritis Foundation, 1212 Avenue of the Americas, New York 10036)

7-9. National Conf. on Cancer of the Colon and Rectum, San Diego, Calif. (R. N. Grant, American Cancer Soc., 219 E. 42 St., New York 10017)

11-15. Society of Automotive Engineers, Detroit, Mich. (W. I. Marble, 2 Pennsylvania Pl., New York 10001)

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11-15. **Water Resources Engineering**, Phoenix, Ariz. (Executive Secretary, American Soc. of Chemical Engineers, 345 E. 47 Street, New York 10017)

11-22. **Science, Society, and Our World**, Medford, Mass. (K. A. McCarthy, Graduate School of Arts and Sciences, Tufts Univ., Medford 02155)

12-14. **Institute of Electrical and Electronics Engineers, Reliability and Quality Control**, 17th annual symp., Washington, D.C. (Executive Secretary, IEEE, 345 E. 47 St., New York 10017)

12-14. **System Sciences**, intern. conf., Honolulu, Hawaii. (R. Chattopadhyay, Univ. of Hawaii, 2565 The Mall, Honolulu 96822)

12-16. **National Soc. of Professional Engineers**, Memphis, Tenn. (P. H. Robbins, 2029 K St., NW, Washington, D.C. 20006)

12-18. **Marine Biological Assoc. of India**, Cochin. (E. G. Silas, Jyothi Building, Gopala Prabhu Rd., Ernakulam, Cochin, 11)

17. **Human Factors in the Design and Operation of the Highway Transportation System**, 4th annual, Washington, D.C. (B. W. Stephens, Dept. of Transportation, Federal Highway Administration, Office of Research and Development, 35-41.2, Washington, D.C. 20591)

17-21. **Pan-American Conf. on Adolescence**, Buenos Aires, Argentina. (S. C. Feinstein, American Soc. for Adolescent Psychiatry, 741 St. Johns, Highland Park, Ill. 60035)

18-19. **Nucleic Acid-Protein Interaction**, Miami, Fla. (F. Huijing, Dept. of Biochemistry Univ. of Miami School of Medicine, P.O. Box 875, Biscayne Annex, Miami 33152)

18-20. **Society of Thoracic Surgeons**, Dallas, Tex. (W. G. Purcell, 333 N. Michigan Ave., Chicago, Ill. 60610)

18-22. **Highway Research Board**, 50th annual, Washington, D.C. (H. M. Gillespie, Natl. Research Council, 2101 Constitution Ave., NW, Washington, D.C. 20418)

18-22. **Metallographic Interpretation**, Dallas, Tex. (J. A. Fellows, American Society of Metals, Metal Park, Ohio 44073)

18-25. **Pathological Wilting in Plants**, intern. symp., Madras, India (T. S. Sadasivan, Univ. of Madras, Botany Lab., Madras-5)

19-21. **Systems, Networks, and Computers**, intern. conf., Oaxtepec, Mexico. (M. A. Murray-Lasso, Instituto de Ingenieria, Ciudad Universitaria, Mexico 20 DF, Mexico)

21-22. **Nucleic Acid Synthesis in Viral Infection**, Miami, Fla. (F. Huijing, Dept. of Biochemistry, Univ. of Miami School of Medicine, P.O. Box 875, Biscayne Annex, Miami 33152)

21-25. **American Mathematical Soc.**, Atlantic City, N.J. (G. L. Walker, P.O. Box 6248, Providence, R.I. 02904)

21-31. **North American Conf. on Fertility and Sterility**, Puerto Vallarta, Mexico. (Mrs. F. Royce, 112-44 69th Ave, Forest Hills, N.Y. 11375)

22. **Bibliographical Soc. of America**, New York, N.Y. (T. R. Adams, John Carter Brown Library, Brown Univ., Providence, R.I. 02912)

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