

date interpretations of the echolocating capacities of these animals.

The need for more communication among researchers in the field of marine bioacoustics was first expressed at a meeting held in March 1961, at the Lerner Marine Laboratory, Bimini, Bahamas. That meeting was held in connection with the then newly established acoustic-video system, installed at Bimini by the Institute of Marine Science, University of Miami [*Science* 134, 288 (1961)]. Accordingly a symposium was planned and organized by William N. Tavolga, John C. Steinberg, and Robert F. Mathewson. This first symposium on marine bioacoustics was held at Bimini, in April 1963; it was cosponsored by the Office of Naval Research and the American Museum of Natural History. After the publication of the proceedings of this symposium [*Marine Bioacoustics* (Pergamon Press, 1964)], it became clear that the field was advancing rapidly and a second symposium was in order. The U.S. Naval Training Device Center has been developing a project, in collaboration with the American Museum, of accumulating available data on marine animal sounds. Recognizing the need for bringing communication in this field up to date, the center, particularly its technical director of research, Hanns H. Wolff, proposed the convocation of this second symposium on marine bioacoustics.

The discussions following each paper at this symposium were quite extensive. Both the papers and the discussions are in the process of being assembled and edited for eventual publication.

WILLIAM N. TAVOLGA  
*Department of Animal Behavior,  
American Museum of Natural History,  
and Department of Biology,  
City College of the City University of  
New York*

## Forthcoming Events

### September

1-3. **Genetics Soc. of America**, Chicago, Ill. (R. P. Wagner, Dept. of Zoology, Univ. of Texas, Austin)

1-5. **International College of Angiology**, 8th annual mtg., Madrid, Spain. (H. E. Shaftel, 50 Broadway, New York, N.Y. 10004)

2-4. **Czechoslovak Soc. of Arts and Sciences in America**, 3rd congr., New York, N.Y. (R. Sturm, Skidmore College, Saratoga Springs, N.Y. 12866)

12 AUGUST 1966

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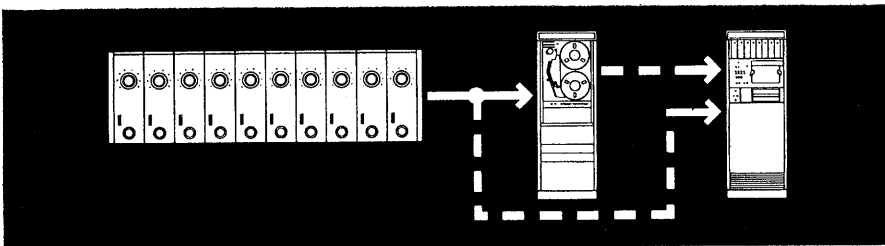
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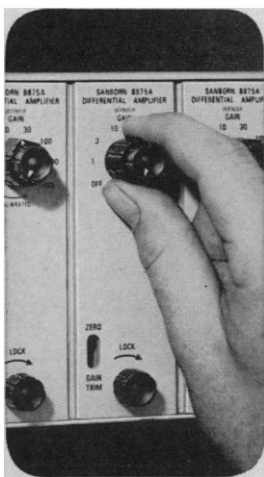
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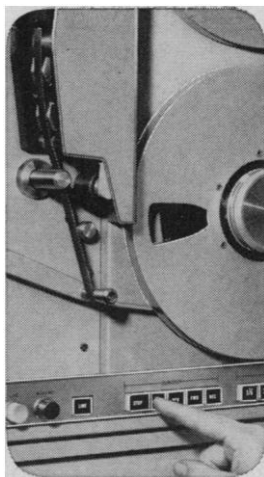


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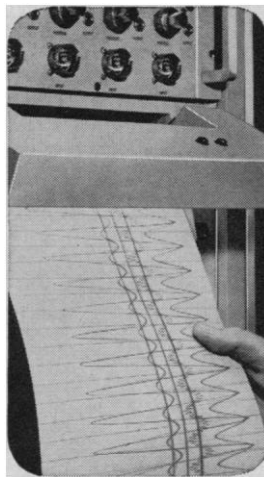
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2-6. American Psychological Assoc., 74th annual mtg., New York, N.Y. (A. H. Brayfield, 1200 17th St., NW, Washington, D.C. 20036)

2-6. Psychometric Soc., mtg., New York, N.Y. (W. G. Mollenkopf, Procter and Gamble Co., Box 599, Cincinnati, Ohio 45201)

3-5. International Soc. for the History of Pharmacy, 40th conf., Heidelberg, Germany. (W. Luckenbach, Friederich-Ebert-Anlage 23a, Postfach 1109, 69 Heidelberg 1 West Germany)

3-7. Solid State Science, intern. conf., American Univ., Cairo, Egypt. (A. Bishay, Dept. of Physical Sciences, American Univ. in Cairo, 113 Kasr El Aini St., Cairo, UAR)

4-9. American Phytopathological Soc., Caribbean Div., 6th annual mtg., Maracay, Venezuela. (G. Malaguti, Centro de Investigaciones Agronomicas Apartado Postal 4690, Maracay)

4-11. Sociology, 6th world congr., Evian, France. (G. G. Reader, Dept. of Medicine, Cornell Univ. Medical College, 1300 York Ave., New York 10021)

5-7. Rare Earths, conf., Inst. of Physics and the Physical Soc., Univ. of Durham, Durham, England. (Meetings Officer, Inst. of Physics and the Physical Soc., 47 Belgrave Sq., London S.W.1)

5-8. American Ornithologists' Union, mtg., Univ. of Minnesota, Duluth. (L. R. Mewaldt, Dept. of Biological Sciences, San Jose College, San Jose, Calif. 95114)

5-9. Biophysics, 2nd intern. congr., Vienna, Austria. (A. K. Solomon, Biophysical Laboratory, Harvard Medical School, Boston, Mass. 02115)

5-9. Coordination Chemistry, intern. conf., St. Moritz, Switzerland. (G. Schwarzenbach, Eidg. Technical High School, Zurich)

5-9. Use of Isotopes in Plant Nutrition and Physiology Studies, symp., Vienna, Austria. (J. H. Kane, Conferences Branch, Div. of Technical Information, U.S. Atomic Energy Commission, Washington, D.C. 20545)

5-9. Polar Meteorology, symp., Geneva, Switzerland. (K. K. Langlo, World Meteorological Organization, 41 Ave. Giuseppe-Motta, 1200, Geneva)

5-9. Water Pollution Research, 3rd intern. conf., Munich, Germany. (B. B. Berger, Box 5557, Friendship Station, Washington, D.C. 20016)

5-10. Human Genetics, 3rd intern. congr., Univ. of Chicago, Chicago, Ill. (B. S. Strauss, Dept. of Microbiology, Univ. of Chicago, Chicago 60637)

5-10. Insect Pathology, intern. colloquium, Wageningen, Netherlands. (P. Grison, Laboratoire de Biocoenotique et de Lutte Biologique, La Minière par Versailles, Seine-et-Oise, France)

5-10. International Radiation Protection Assoc., first intern. congr., Rome, Italy. (C. Polvani, Casella Postale 2359, Rome)

5-11. Psychiatry, 4th world congr., Madrid, Spain. (Chair of Psychiatry, Faculty of Medicine, Univ. of San Carlos, Calle Atocha 106, Madrid)

5-11. Vital Substances, Nutrition, and Civilization Diseases, 12th intern. conv., Charleroi, Belgium. (H. A. Schweigart, Intern. Soc. for Research on Nutrition and Vital Substances, Berneroder str., 61, Hannover, Kirochrode, West Germany)

5-13. International Committee of **Electrochemical Thermodynamics and Kinetics**, 17th mtg., Tokyo and Kyoto, Japan. (M. Fleischmann, Dept. of Physical Chemistry, Univ. of Newcastle upon Tyne, Newcastle upon Tyne 1, England)

15-17. **Rock Mechanics**, 8th symp., Minneapolis, Minn. (Symposium Committee, Univ. of Minnesota, Minneapolis)

5-19. International **Scientific Radio Union**, 15th general assembly, Munich, Germany. (E. Herbays, 7, pl. Emile Danco, Brussels 18, Belgium)

6-8. **Selenium in Biomedicine**, intern. symp., Corvallis, Ore. (O. H. Muth, DVM Nutrition Research Inst., Oregon State Univ., Corvallis 97331)

6-9. **Bacterial Intestinal Infectious Diseases**, intern. symp., Prague, Czechoslovakia. (M. Duniewicz, Czechoslovak Medical Soc. J. E. Purkyne Sokolska 31, Prague)

6-10. **Molecular Structure and Spectroscopy**, mtg., Ohio State Univ., Columbus. (R. N. Rao, Dept. of Physics, Ohio State Univ., Columbus 43210)

6-10. American **Political Science Assoc.**, mtg., New York, N.Y. (E. M. Kirkpatrick, 1726 Massachusetts Ave., NW, Washington, D.C.)

6-10. **Radiochemistry**, 4th Czechoslovak conf., Bratislava, Czechoslovakia. (Nuclear Chemistry Section, Czechoslovak Chemical Soc., Hradčanské nám 12, Prague 1)

6-11. **Magnetic Resonance and Relaxation**, intern. conf., Ljubljana, Yugoslavia. (R. Blinc, Nuclear Inst. "J. Stefan", Ljubljana)

7-9. **Aerodynamic Deceleration Systems**, conf., Houston, Tex. (R. S. Ross, Good-year Aerospace Corp., 1210 Masillon Rd., Akron, Ohio 44315)

7-9. Influence of **Synthetics and Pesticides on Food Chemistry**, symp., Aachen, Germany. (German Chemical Soc., Geschäftsstelle, 6 Frankfurt am Main, Postfach 9075, Germany)

7-10. National **Agricultural Chemicals Assoc.**, 33rd annual mtg., White Sulphur Springs W. Va. (The Society, 1155 15th St. NW, Washington, D.C. 20005)

7-10. American **Geophysical Union**, 6th western natl. mtg., Los Angeles, Calif. (AGU, 1145 19th St. NW, Washington, D.C. 20036)

7-10. **Internal Medicine**, intern. conf., Amsterdam, Netherlands. (Secretariat, Holland Organizing Center, 16, Lange Voorhout, The Hague)

7-10. **Invertebrates and the Chemistry of Learning**, symp., Michigan State Univ., East Lansing. (W. C. Corning, Fordham Univ., Bronx, N.Y.)

7-10. **Space Simulation**, conf., Houston, Texas. (A. C. Bond, Code EA, NASA Manned Spacecraft Center, Houston 77058)

8-10. **Atherosclerosis and the Reticulo-Endothelial System**, intern. symp., Como, Italy. (R. Paoletti, Inst. of Pharmacology, Via Vanvitelli n. 32, Milan)

8-10. International Soc. of **Geographical Pathology**, 9th conf., Leiden, Netherlands. (Secretariat, Holland Organizing Centre, 16, Lange Voorhout, The Hague)

8-10. **Parapsychological Assoc.**, 9th annual conv., New York, N.Y. (J. G. Pratt, Box 152, Univ. of Virginia Hospital, Charlottesville 22901)



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8-13. **Semiconductor Physics**, intern. conf., Kyoto, Japan. (G. M. Hatoyama, Physical Soc. of Japan, Hongo P.O. Box 28, Tokyo)

9-10. **Instrumentation for High Energy Physics**, intern. conf., Stanford, Calif. (D. W. Dupen, Stanford Linear Accelerator Center, P.O. Box 4349, Stanford, Calif. 94305)

9-10. **Scandinavian Neurosurgical Soc.**, 19th annual mtg., Gothenburg, Sweden. (G. Norlen, Sahlgrenska Sjukhus, Gothenburg)

10-21. **Industrial Chemistry**, 36th intern. congr., Brussels, Belgium. (A. Guilmot, 49, Sq. Marie-Louise, Brussels 4)

11-15. **Cell, Tissue, and Organ Culture**, 2nd conf., Tissue Culture Assoc., Bedford, Pa. (V. J. Evans, Natl. Cancer Inst., NIH, Bethesda, Md. 20014)

11-16. **American Chemical Soc.**, 152nd natl. mtg., New York, N.Y. (The Society, 1155 16th St., NW, Washington, D.C.)

11-16. **International Soc. of Orthopedic Surgery and Traumatology**, 10th mtg., Paris, France. (P. Lance, 34 rue Montoyer, Brussels, Belgium)

11-17. **International Soc. for Rehabilitation of the Disabled**, 10th world congr., Wiesbaden, Germany. (S. G. Whittier, Natl. Soc. for Crippled Children and Adults, 2023 W. Ogden Ave., Chicago, Ill. 60612)

11-18. **Comparative Pathology**, intern. congr., Beirut, Lebanon. (J. K. Frenkel, Dept. of Pathology and Oncology, Univ. of Kansas Medical Center, Kansas City)

12-13. **Chromatography and Electro-**

**phoresis**, 4th intern. symp., Brussels, Belgium. (Belgian Soc. of Pharmaceutical Sciences, 11, rue Archimède, Brussels 4)

12-14. **American Fisheries Soc.**, Kansas City, Mo. (R. F. Hutton, The Society, 1404 New York Ave., Washington, D.C.)

12-14. **Physics of Free Atoms**, conf., Berkeley, Calif. (V. W. Cohen, Physics, Dept. Brookhaven Natl. Laboratory, Upton, N.Y. 11973)

12-14. **Society for Industrial and Applied Mathematics**, fall mtg., Stony Brook, N.Y. (A. H. Zemanian, Dept. of Applied Analysis, State Univ. of New York, Stony Brook 11790)

12-14. **Production and Applications of Intense Magnetic Fields**, intern. colloquium, Grenoble, France. (National Center of Scientific Research, 15, quai Anatole France, Paris 7)

12-15. **Sarcoidosis**, 4th intern. conf., Paris, France. (J. Chretien, Hospital Cochin, rue Faubourg St.-Jacques, Paris 14)

12-15. **Society of American Foresters**, 66th annual mtg., Seattle, Wash. (The Society, 1010 16th St., NW, Washington, D.C. 20036)

12-16. **International Council of the Aeronautical Sciences**, 5th congr. London, England. (American Inst. of Aeronautics and Astronautics, 1290 Sixth Ave., New York 10019)

12-16. **Ecological Archives and Methods of Analysis**, intern. conf., Evian, France. (Intern. Social Science Council, 6 rue Franklin, Paris 16, France)

12-16. **Nuclear Radiation and X-ray Chemistry**, symp., Jälich, Germany. (Ger-

man Chemical Soc., Geschäftsstelle, 6 Frankfurt am Main 9, Postfach 9075, Germany)

12-16. **Radiation Measurements in Nuclear Power**, conf., Berkeley, England. (K. F. Orton, Berkeley Nuclear Laboratories, Berkeley)

12-16. **Vaccines Against Viral and Rickettsial Diseases of Man**, intern. conf., Washington, D.C. (Pan American Sanitary Bureau, 525 23rd St., NW, Washington, D.C. 20037)

12-17. **Angiology**, 8th Latin American congr., Caracas, Venezuela. (J. Morales Rocha, avda. Diego de Lazada 12, San Bernardino, Caracas)

12-17. **Insect Chemistry**, European conf., Milan, Italy. (Polytechnical Inst. of Milan, Piazza Leonardo da Vinci 32, Milan)

12-17. **Nuclear Physics**, intern. conf., Gatlinburg, Tenn. (A. Zucker, Oak Ridge Natl. Laboratory, P.O. Box X, Oak Ridge, Tenn. 37831)

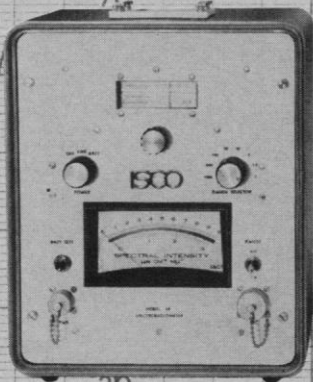
13-16. **Antarctic Oceanography**, symp., Santiago, Chile. (H. Mosby, Geophysics Inst., Bergen, Norway)

14-16. **Deformation and Flow in High Polymer Systems**, conf., Loughborough, England. (R. E. Wetton, Dept. of Chemistry, Loughborough College of Technology, Loughborough, England)

14-18. **International Federation of Operational Research Soc.**, 4th intern. conf., Cambridge, Mass. (P. M. Morse, Room 6-107, Massachusetts Inst. of Technology, Cambridge 02139)

14-21. **Neurobiology**, symp., Stockholm,

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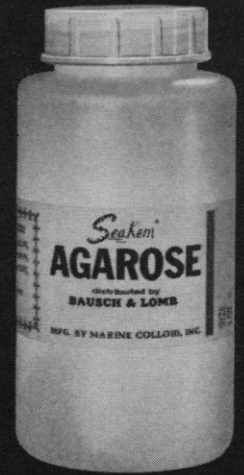
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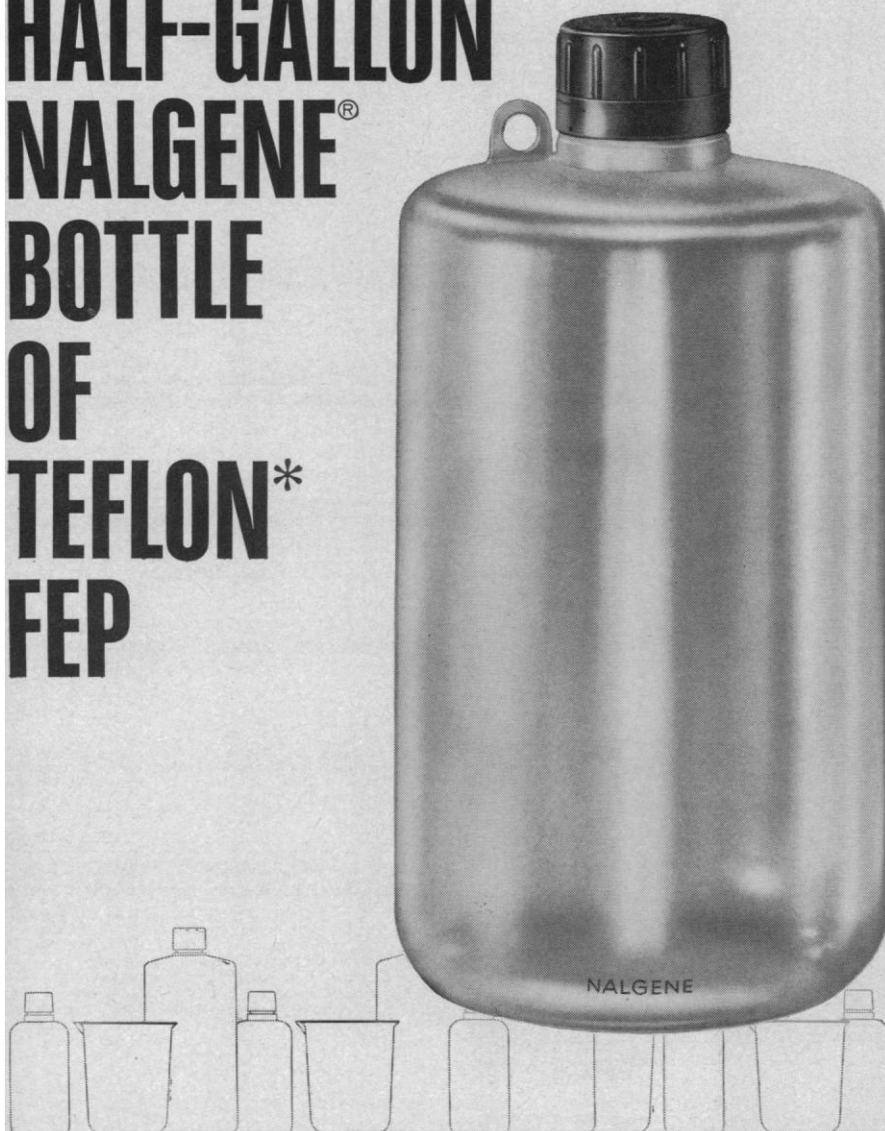
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Sweden. (UNESCO, Pl. de Fontenoy, Paris 7, France)

15-16. **Pyrolysis-Gas Chromatography**, symp., Paris, France. (G. Guichon, Ecole Polytechnique, 17 rue Descartes, Paris 53)

17-24. **Pharmaceutical Sciences**, 26th intern. congr., Madrid, Spain. (J. H. M. Winters, Alexanderstraat 111, The Hague, Netherlands)

18-21. American Inst. of **Chemical Engineers**, 58th natl. mtg., Atlantic City, N.J. (Asst. Secretary, 345 E. 47 St., New York 10017)

18-24. International Soc. of **Gastroenterology**, 5th world congr., Tokyo, Japan. (Secretary General, School of Medicine, Jikei Univ., Atago-cho, Shiba, Minato-Ku, Tokyo)

18-24. **Veterinary Medicine and Zootechnic**, 5th Pan American congr., Caracas, Venezuela. (P.O. Box 5212, Chacao, Caracas)

19-21. **Instrumental Optics** and Optical Design, conf., Chelsea College of Science and Technology, Chelsea, England. (Meetings Officer, Inst. of Physics and the Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

19-22. **Cybernetic Medicine**, 4th intern. congr., Nice, France. (Dr. Cossa, 29 boul. Victor-Hugo, Nice)

19-22. Applications of **Electronic Engineering to Oceanography**, conf., Southampton, England. (Inst. of Electronic and Radio Engineers, 8-9 Bedford Sq., London, W.C.1, England)

19-22. **Neurobiologists**, 4th intern. mtg., Stockholm, Sweden. (Secretary General, Nobel Inst. for Neurophysiology, Karolinska Inst., Stockholm 60)

19-23. American Soc. of **Oral Surgeons**, mtg., Chicago, Ill. (E. Larson, 211 E. Chicago Ave., Chicago)

19-24. **Boundary Layers and Turbulence**, symp., Kyoto, Japan. (I. Tani, Inst. of Space and Aeronautical Science, Univ. of Tokyo, Tokyo, Japan)

19-24. International Federation for **Documentation**, 32nd conf., The Hague, Netherlands. (Organizing Secretary, 7 Hofweg, The Hague)

20-22. **Tube Techniques**, 8th conf., Inst. of Electrical and Electronics Engineers, electron devices group, New York, N.Y. (R. J. Bondley, General Electric Co., Schenectady, N.Y.)

20-23. **Comminution**, 2nd symp., European Federation of Chemical Engineering, Amsterdam, Netherlands. (Congress Bureau, 3 Sint Agnietenstraat, Amsterdam)

20-23. **Gas Chromatography** and Associated Techniques, intern. symp., Rome, Italy. (A. B. Littlewood, School of Chemistry, The University, Newcastle on Tyne 1, England)

20-23. **Immunity, Cancer, and Chemotherapy**, intern. symp., Buffalo, N.Y. (E. Mihich, Roswell Park Memorial Inst., Buffalo 14203)

21-22. Significance of **Water Composition**, natl. symp., American Soc. for Testing and Materials, Philadelphia, Pa. (The Society, 1916 Race St., Philadelphia)

21-23. **Aerodynamic Testing**, conf., Los Angeles, Calif. (R. E. Covey, Jet Propulsion Laboratory, 4800 Oak Ridge Dr., Pasadena, Calif. 91103)

21-23. International Assoc. of **Geochemistry and Cosmochemistry**/Intern. Union of Geological Sciences, mtg., Paris,

France. (UNESCO, Pl. de Fontenoy, Paris)

21-23. **Molecular Motion** in Solids, Liquids, and Gases by Magnetic Resonance, mtg., Canterbury, England. (E. F. W. Seymour, British Radio Spectroscopy Group, School of Physics, Univ. of Warwick, Coventry, England)

21-23. **Nuclear and Particle Physics**, conf., Univ. of Glasgow, Glasgow, Scotland. (Meetings Officer, Inst. of Physics and the Physical Soc., 47 Belgrave Sq., London S.W.1, England)

21-23. **Origin and Abundance-Distribution of the Elements**, symp., UNESCO headquarters, Paris, France. (W. D. Page, Div. of Earth Sciences, Natl. Acad. of Sciences, 2101 Constitution Ave., Washington, D.C. 20418)

21-23. **Origin and Distribution of the Elements**, symp., Paris, France. (E. Ingerson, Dept. of Geology, Univ. of Texas, Austin 78712)

21-23. **Supermolecular Structure in Fibers**, 25th conf., Fiber Society, Boston, Mass. (L. Rebenfeld, Textile Research Inst., P.O. Box 625, Princeton, N.J.)

21-24. **New Methods of Stellar Dynamics**, colloquium, Besançon, France. (Assistant Secretary, Intern. Astronomical Union, Observatory of Nice, Le Mont-Gros, Nice, France)

21-29. **International Atomic Energy Agency**, 10th general conf., Vienna, Austria. (IAEA, Kärrntnerring 11, Vienna 1)

22-24. **American College of Cardiology**, regional mtg. Univ. of Florida, Gainesville. (M. W. Wheat, Jr., Div. of Postgraduate Education, Univ. of Florida College of Medicine, Gainesville 32601)

22-24. **Muscle Circulation**, symp., Smolenice, Czechoslovakia. (O. Hudlická, Inst. of Physiology, Czechoslovak Acad. of Sciences, Budějovická 1083, Prague 4)

23-1. **American Soc. of Clinical Pathologists**, Chicago, Ill. (Secretary, 445 North Lake Shore Dr., Chicago 11, Ill.)

24-26. **Phage Genetics and Physiology**, mtg., Naples, Italy. (Organizing Committee, Intern. Laboratory of Genetics and Biophysics, Naples)

25-28. **Gastrointestinal Radiation Injury**, symp., Richland, Wash. (M. F. Sullivan, Biology Dept., Battelle-Northwest, P.O. Box 999, Richland 99352)

25-29. **Water Pollution Control Federation**, 39th mtg., Kansas City, Mo. (R. E. Fuhrman, 4435 Wisconsin Ave., NW, Washington, D.C. 20016)

25-30. **Nephrology**, 3rd intern. congr., Washington, D.C. (Secretariat, 9650 Wisconsin Ave., Washington, D.C. 20014)

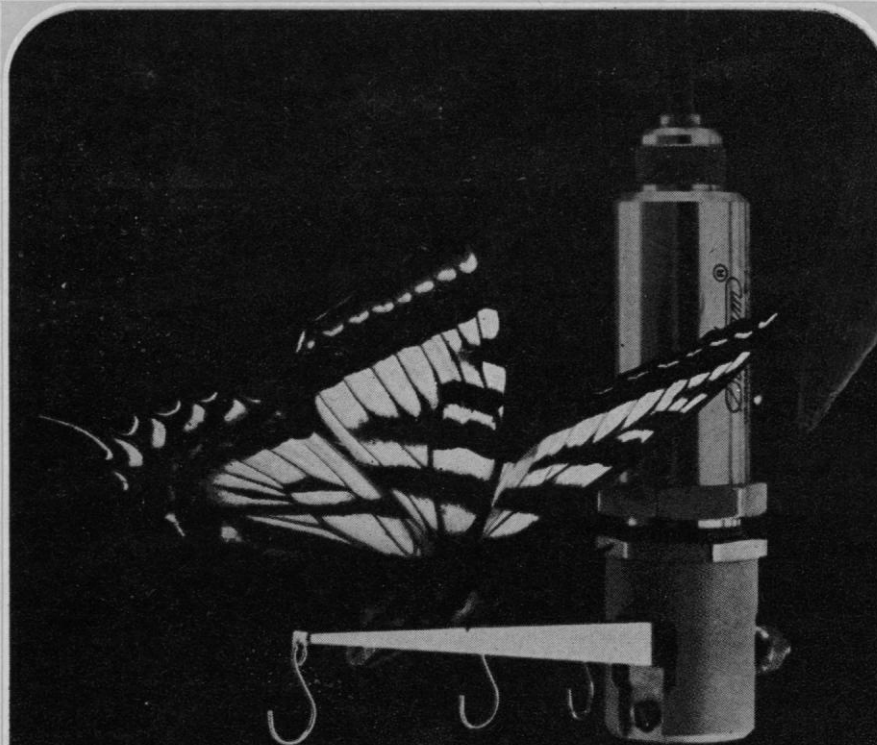
26-27. **Engineering Management**, 14th annual joint conf. (JEMC), Washington, D.C. (H. M. Sarasohn, IBM Corp., Armonk, N.Y. 10504)

26-27. **Prospects for Simulation and Simulators of Dynamic Systems**, symp., Baltimore, Md. (S. Burik, MS 452A, Westinghouse Electric Corp., P.O. Box 746, Baltimore 21203)

26-28. **Colloid Stability** in Aqueous and Nonaqueous Media, mtg., Faraday Soc., Univ. of Nottingham, Nottingham, England. (The Society, 6 Gray's Inn Sq., London W.C.1, England)

26-28. **Nonconventional Energy Conversion Applications**, first conf., Los Angeles, Calif. (R. E. Henderson, Research Manager, Applied Sciences, Allison Div., GMC, Indianapolis, Ind. 46202)

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