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instance, D. Hansen (Thompson-Ramo-Woolridge) mentioned experiments aimed at producing bursts of fast atoms by volatilizing electrostatically accelerated dust particles with a laser pulse. And it seems certain that additional techniques will be developed in the future.

The meeting closed with a panel discussion led by I. Amdur (MIT). The panelists, R. Bernstein (University of Wisconsin), S. Datz (Oak Ridge National Laboratories), M. Karplus, A. Kupperman (California Institute of Technology), B. Mahan, and the undersigned organizing committee, discussed the problems and the prospects of the field. Much of the critical appraisal of the comparative merits of chemical accelerators, which has already been mentioned in this report, resulted from this session. Quite obviously the field is in its early infancy and the direction of its development is still far from evident. However, it was generally agreed that in the more distant future the production of beams having not only a high kinetic energy, but also in selected states of internal excitation, would be important. Just what combination of techniques will prove to be most useful in the next 10 years is something about which few participants were willing to speculate. One general conclusion seems quite clear; the field will grow rapidly now that its fundamental importance to elementary chemical kinetics has been recognized.

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R. WOLFGANG

R. N. ZARE

L. M. BRANSCOMB

*Departments of Chemistry, Physics
and Astrophysics, and Joint
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Calendar of Events

National Meetings

December

1. **Medical Aspects of Sports**, 10th, Miami Beach, Fla. (F. Hein, American Medical Assoc., Dept. of Health Education, 535 N. Dearborn St., Chicago, Ill.)

1. **American Acad. of Oral Medicine**, New York, N.Y. (S. Conrad, 133-28 228th St., Laurelton, N.Y. 11413)

1-4. **American Medical Assoc.**, Miami Beach, Fla. (F. J. L. Blasingame, 535 N. Dearborn St., Chicago, Ill. 60610)

1-4. **Reticuloendothelial Soc.**, 5th, New York, N.Y. (F. J. DiCarlo, Warner-Lambert Research Inst., Morris Plains, N.J. 07950)

1-5. **American Inst. of Chemical Engineers**, 61st, Los Angeles, Calif. (Secretary, 345 E. 47 St., New York 10017)

1-6. **Radiological Soc. of North America**, Chicago, Ill. (M. D. Frazer, 1744 S. 58 St., Lincoln, Neb. 68506)

2. **Quantum Chemistry**, 9th winter inst., Gainesville, Fla. (Winter Institute, 525 Nuclear Sciences Bldg., Univ. of Florida, Gainesville 32601)

2-3. **Applications of Simulation**, 2nd conf., New York, N.Y. (A. Ockene, IBM Corporation, 112 E. Post Road, White Plains, N.Y. 10601)

2-4. **New England Conf. on Air Pollution**, Waterville, Maine. (Director, Colby News Bureau, Colby College, Waterville 04901)

2-4. **Western National Geophysical Union**, San Francisco, Calif. (J. C. Harrison, Dept. of Geophysical Sciences, Univ. of Colorado, Boulder 80302)

2-6. **Greater New York Dental Mtg.**, 44th, New York, N.Y. (M. Purdy, Room 106A, Statler-Hilton, New York 10001)

3. **American Soc. of Therapeutic Radiologists**, Chicago, Ill. (J. A. del Regato, Penrose Cancer Hospital, 2215 N. Cascade, Colorado Springs, Colo. 80907)

3-4. **Vehicular Technology Conf.**, San Francisco, Calif. (W. G. Chaney, Lenkurt Electric, 1105 Country Rd., San Carlos, Calif. 94070)

3-5. **Entry Vehicle Systems and Technology Conf.**, Williamsburg, Va. (M. H. Bloom, Polytechnic Inst. of Brooklyn, Graduate Center, Route 110, Farmingdale, N.Y. 11735)

4-6. **Optical Character Recognition in Computerized Management of Information in the Next Decade**, Hollywood, Fla. (International Business Forms Industries, 20 Chevy Chase Circle, NW, Washington, D.C. 20015)

4-6. **Academy of Psychosomatic Medicine**, Miami Beach, Fla. (E. Dunlop, 150 Emory St., Attleboro, Mass. 02703)

4-7. **American Assoc. of Physicists in Medicine**, Chicago, Ill. (R. O. Gorsop, Stein Research Center, Jefferson Medical College, 920 Chancellor St., Philadelphia, Pa. 19107)

5-6. **American Rheumatism Assoc.**, Tucson, Ariz. (M. M. Walsh, 1212 Avenue of the Americas, New York 10036)

6-7. **American Federation for Clinical Research**, Boston, Mass. (H. J. Levine, New England Medical Center Hospitals, 171 Harrison Ave., Boston 02111)

7-12. **American Acad. of Dermatology and Syphilology**, 27th, Chicago, Ill. (S. E. Huff, 1636 Church St., Evanston, Ill.)

8-13. **American Soc. of Agricultural Engineers**, Chicago, Ill. (P. L. Bellinger, Technical Coordinator, 420 Main St., St. Joseph, Mich. 49085)

8-15. **Symposium of Analogue and Digital Computers in Hydrology**, Tucson, Ariz. (American Federation of Information Processing Societies, 211 E. 43 St., New York 10017)

9-11. **Computer Conf.**, San Francisco,

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Calif. (R. H. Glaser, 1968 Joint Computer Conf., P.O. Box 2309, Stanford, Calif. 94305)

9-12. **Electrical Insulation Conf.**, Los Angeles, Calif. (Secretary, 3600 Wilshire Blvd., Los Angeles 90005)

9-12. **National Electronics Conf. and Exhibition**, 24th, Chicago, Ill. (E. C. Jones, Electrical Engineering Dept., Iowa State Univ., Ames)

11-13. **National Oceanography Conf.**, Portland, Ore. (J. H. Jorgenson, National Security Industrial Assoc., Suite 800, 1030 15th St., NW, Washington, D.C. 20005, or K. R. Cannon, Governor's Committee on Natural Resources, State Capitol, Salem, Ore. 97310)

15-17. **New York State Soc. of Anesthesiologists**, New York, N.Y. (E. C. Sinisi, 30 E. 42 St., New York, 10017)

16-18. **Symposium on Adaptive Processes**, 7th, Univ. of California, Los Angeles. (J. M. Mendel, Advance Flight Mechanics, Douglas Aircraft Co., Inc. 3000 Ocean Park Blvd., Santa Monica, Calif. 90406)

16-20. **Texas Symp. of Relativistic Astrophysics**, 4th, Dallas. (I. Robinson, South West Center for Advanced Studies, P.O. Box 30365, Dallas 75230)

18-20. **American Physical Soc.**, San Diego, Calif. (W. Whaling, California Inst. of Technology, 1201 East California St., Pasadena 91109)

20-22. **American Psychoanalytic Assoc.**, New York, N.Y. (American Psychoanalytic Assoc., 1 E. 57 St., New York 10022)

23-25. **International Electron Devices Mtg.**, Washington, D.C. (D. A. Chisholm, Bell Telephone Labs., Murray Hill, N.J. 07974)

26-31. **American Assoc. for the Advancement of Science**, 135th, Dallas, Texas. (Secretary, 1515 Massachusetts Ave., NW, Washington, D.C. 20005)

26-31. **Society for General Systems Research**, Dallas, Texas. (M. D. Rubin, Mitre Corp., Bedford, Mass. 01730)

27-30. **Institute of Mathematical Statistics**, Washington, D.C. (J. R. Rosenblatt, 337 Administration Bldg., Gaithersburg, National Bureau of Standards, Washington, D.C. 20234)

28-30. **History of Science Soc.**, Dallas, Texas. (J. C. Greene, Dept. of History, Univ. of Connecticut, Storrs 06268)

January

9-11. **Society for Historical Archaeology**, 2nd, Tucson, Ariz. (B. L. Fontana, Arizona State Museum, Arizona Univ., Tucson 85721)

12-17. **Brain Research**, Snowmass-at-Aspen, Colo. (J. E. Swett, Dept. of Anatomy, Univ. of Colorado Medical Center, Denver 80220)

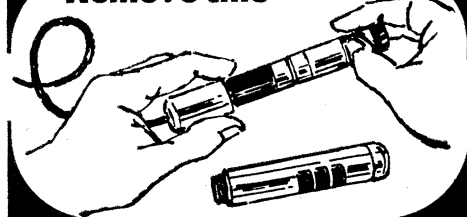
13-14. **Applications of Sea-Going Computers**, La Jolla, Calif. (C. B. Jackson, MTS Data Engineering Committee, P.O. Box 2158, La Jolla 92037)

13-15. **Agricultural Waste Management Conf.**, Syracuse, N.Y. (Agricultural Waste Management Conf., 400 Roberts Hall, Cornell Univ., Ithaca, N.Y. 14850)

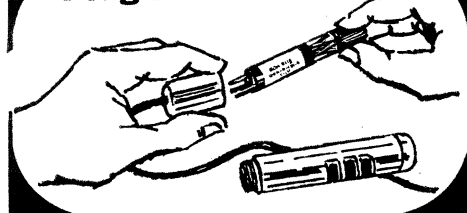
13-15. **Animal Waste Management**, Syracuse, N.Y. (R. C. Loehr, 208 Riley-Robb Hall, Cornell Univ., Ithaca, N.Y.)

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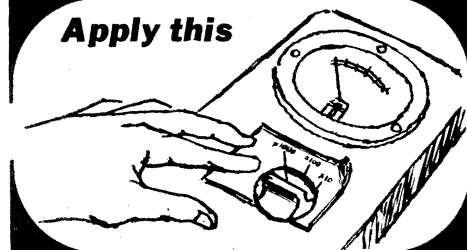
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13-17. Society of **Automotive Engineers**, Inc., Detroit, Mich. (Manager, Meetings Div., 485 Lexington Ave., New York 10017)

15-18. National Soc. of **Professional Engineers**, Las Vegas, Nev. (K. E. Trombley, Natl. Soc. of Professional Engineers, 2029 K St., NW, Washington, D.C. 20006)

17-18. Symposium on **Blood**, Detroit, Mich. (E. F. Mammen, Dept. of Physiology and Pharmacology, Wayne State Univ., 1400 Chrysler Freeway, Detroit 48207)

17-18. American Soc. for **Surgery of the Hand**, New York, N.Y. (L. Milford, 869 Madison Ave., Memphis, Tenn. 38104)

18-23. American Acad. of **Orthopaedic Surgeons**, New York, N.Y. (J. K. Hart, 29 E. Madison, Chicago, Ill. 60602)

19-21. American Soc. for **Engineering Education**, Flint, Mich. (E. H. Wright, American Soc. for Engineering Education, 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

20-21. Symposium on **Control Mechanisms in Intermediary Metabolism**, Miami, Fla. (Dept. of Biochemistry, Univ. of Miami Medical School, P.O. Box 875, Biscayne Annex, Miami 33152)

20-22. American Inst. of **Aeronautics and Astronautics**, New York, N.Y. (AIAA, 1290 Sixth Avenue, New York 10019)

20-22. Society of **Thoracic Surgeons**, San Diego, Calif. (F. C. Byron, City of Hope Medical Center, 1500 E. Duarte Rd., Duarte, Calif. 91010)

21-24. **Physiological Aspects of Crop Yield**, Lincoln, Neb. (F. A. Haskins, Dept. of Agronomy, Univ. of Nebraska, Lincoln 68503)

22-24. Symposium on **Membrane Function and Electron Transfer to Oxygen**, Miami, Fla. (Dept. of Biochemistry, Univ. of Miami Medical School, P.O. Box 875, Biscayne Annex, Miami 33152)

23-25. American Soc. for **Engineering Education**, Baton Rouge, La. (E. H. Wright, American Soc. for Engineering Education, 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

23-25. **Radiotherapy Symp.**, Miami, Fla. (M. Vuksanovic, Radiation Therapy Div., Univ. of Miami Medical School, 1700 NW Tenth Ave., Miami 33136)

23-27. American **Mathematical Soc.**, 75th, New Orleans, La. (H. M. Geham, Univ. of Buffalo, Buffalo, N.Y. 14214)

24-27. American **Group Psychotherapy Assoc.**, New York, N.Y. (M. Schiff, Room 702, 1790 Broadway, New York 10019)

26-28. Conference of **Immunologists**, Pasadena, Calif. (J. S. Garvey, Div. of Chemistry and Chemical Engineering, California Inst. of Technology, Pasadena)

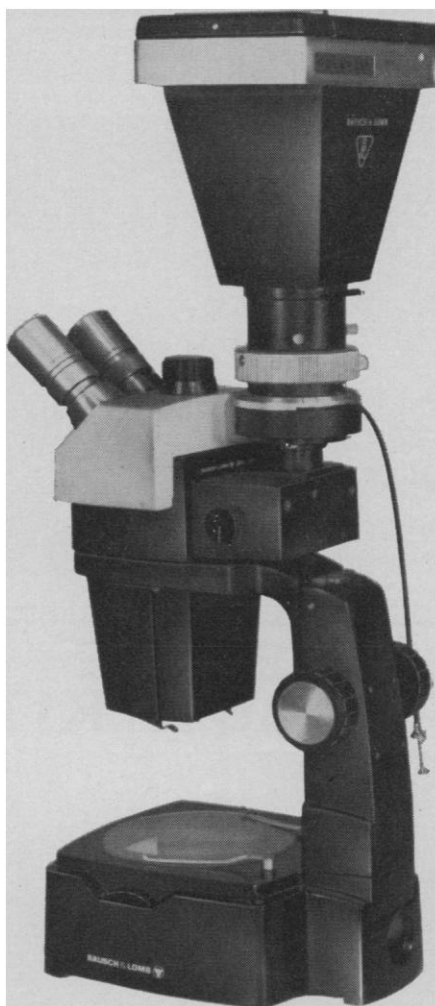
26-31. **Modern Dispatch Techniques of Interconnected Power Systems**, New York N.Y. (Inst. of Electrical and Electronics Engineers, Inc., 345 E. 47 St., New York 10017)

27-30. American Soc. of **Heating, Refrigerating and Air-Conditioning Engineers**, Inc., Chicago, Ill. (J. H. Cansdale, American Soc. of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 345 E. 47 St., New York 10017)

28-30. **Fast Burst Reactor**, Albuquerque, N.M. (G. R. Keepin, Box 1663, Los Alamos, N.M. 87544)

29. New York **Heart Assoc.**, New York, N.Y. (New York Heart Assoc., Inc., Heart House, 2 E. 64 St., New York 10021)

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