

dioxide with nucleating material resulted in more light scattering upon irradiation than is caused by adding nitrogen dioxide first. In the absence of nucleating material, whether or not sulfur dioxide is present, initial addition of nitrogen dioxide is most effective in promoting autonucleation. The autonucleates appear to be more thermally stable in the presence of sulfur dioxide. Discussion concerned the relative role of sulfur dioxide in aerosol formation and the importance of various photochemically produced aerosols in visibility reduction.

R. H. Daines (Rutgers University) considered plants as indicators of air pollution, reviewing the responses of many plant varieties to various pollutants. Among the substances associated with photochemical air pollution, ethylene, ozone, peroxyacyl nitrates, and possibly aldehydes have been observed to cause injury to ornamentals and field crops. Although plant variety is important, leaf age, nutritional status, water relationships, and light intensity can markedly alter the sensitivity of plants to pollutants. Daines suggested that the patterns of plant injury observed during a pollution episode also may serve as indicators of meteorological conditions during the episode.

L. G. Wayne (University of Southern California) reviewed the function of eye-irritation panels as biological indicators of photochemical reactions. The uses and limitations of the intensity, threshold, and response-delay methods were discussed. Wayne pointed out the need to minimize the suggestibility of subjects while maximizing consistency in their responses. Results of several investigations have suggested the presence of lachrymators other than formaldehyde, acrolein, and peroxyacetyl nitrate. Conflicting interpretations of eye-irritation data from studies of irradiated automobile exhaust were reviewed. Wayne suggested that the evidence does not favor basing prediction of eye irritation on rates of reaction of the hydrocarbons, since such a measurement does not properly reflect the intensity of eye irritation developed.

A. P. Altshuller (Public Health Service) discussed "reactivity" or "photochemical reactivity," defined as the tendency of various types of organic substances to participate in the reactions leading to the adverse effects associated with the photochemical type of air pollution. He showed that the same relative order of reactivities of

organic substances could be obtained from various studies of rates of hydrocarbon consumption and nitrogen dioxide formation. The contributions of various organic substances to the reactions producing oxidant, aldehydes, and peroxyacyl nitrates were reviewed. Chemical and biological effects may not be simply related, and care is needed in any attempts to relate them quantitatively. The available measurements of aerosol formation, plant damage, and eye irritation were related to the type of organic substances involved in the experiments. Atmospheric levels were estimated for various types of organic substances studied in laboratory investigations. The magnitudes of effects observed in the atmosphere and the laboratory were compared. Altshuller emphasized the need for removal of all types of reactive substances including olefins, most aromatic hydrocarbons, and aldehydes from emissions. He also suggested several simplified approaches for analysis of emissions and polluted atmosphere for reactive substances.

E. A. Schuck (University of California) discussed a study of the relationships between meteorological factors and photochemical air pollution in the Los Angeles Basin. In this study the atmospheric levels of hydrocarbons were shown to correlate satisfactorily with the atmospheric levels of nitrogen oxide and carbon monoxide. The effect of day of the week on levels of oxidant and eye irritation at various monitoring stations was analyzed for several periods in 1962 to 1964. Weekend oxidant levels and temperatures associated closely with the patterns of human activity and time of the year. Oxidant levels can be quantitatively related to inversion height, wind speed, and light intensity. Smog incidence increases as average daily temperature increases up to 70°F (20°C). The study indicates that certain smog symptoms and emissions are proportional over large areas of the Los Angeles Basin. The laboratory and atmospheric levels of oxidant and eye irritation were compared as functions of hydrocarbon and nitrogen oxides. Calculations based on the atmospheric data indicate that smog incidence is reduced as reactive hydrocarbons are reduced. Similar calculations indicate that if a significant decrease in smog incidence is to be achieved by nitrogen oxide reduction alone, a high degree of control of nitrogen oxide emissions will be necessary.

An informal discussion of research problems comprised the final session.

Difficulties in obtaining properly purified air for some of the large irradiation chambers were discussed. Various methods for removal of pollutants in dilution air were considered. Surface effects from adsorbed pollutants also cause difficulties, and procedures were discussed for reducing surface contamination. These problems make it difficult to do satisfactory experiments at very low concentrations of reactants or with systems of low reactivity.

The symposium was jointly sponsored by the Laboratory of Engineering and Physical Sciences, Division of Air Pollution, U.S. Public Health Service, and the Bartlesville Petroleum Research Center, U.S. Bureau of Mines.

A. P. ALTSHULLER

Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio 45226

Forthcoming Events

March

10-11. Heat Transfer to Non-Newtonian Fluids, 12th annual heat transfer conf., Oklahoma State Univ., Stillwater. (J. D. Parker, Dept. of Mechanical Engineering, Oklahoma State Univ., Stillwater 74075)

11-13. National Council of Teachers of Mathematics, San Diego, Calif. (J. D. Gates, 1201 16th St., NW, Washington, D.C. 20036)

11-13. National Wildlife Federation, annual mtg., Pittsburgh, Pa. (T. L. Kimball, 1412 16th St., NW, Washington, D.C. 20036)

12-13. Linguistics, 11th natl. conf., Linguistic Circle of New York, N.Y. (L. Pap, State Univ. College, New Paltz, N.Y. 12561)

14-16. Society of Toxicology, annual scientific mtg., Williamsburg, Va. (C. S. Weil, Mellon Inst., 4400 Fifth Ave., Pittsburgh, Pa. 15213)

14-16. Wildlife and Natural Resources, 31st North American conf., Pittsburgh, Pa. (C. R. Guterth, Wildlife Management Inst., Wire Bldg., Washington, D.C.)

14-20. Obstetrics and Gynecology, 8th Australian congr., Hobart. (J. F. Correy, 173 Macquaire St., Hobart)

14-6 May. Extraordinary Administrative Aeronautical Radio Conf., 2nd session, Geneva, Switzerland. (Intern. Telecommunication Union, Place des Nations, Geneva)

15-16. Flame Resistant Polymers, conf., London, England. (Secretary, Plastics Inst., 6 Mandeville Pl., London, W.1)

15-18. Optical Soc. of America, spring mtg., Washington, D.C. (M. E. Warga, 1155 16th St., NW, Washington, D.C. 20006)

17-19. Isobaric Spin in Nuclear Physics, intern. conf., Florida State Univ., Tallahassee. (D. Robson, Dept. of Physics, Florida State Univ., Tallahassee)

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18-19. **Rural Health**, conf., Colorado Springs, Colo. (B. L. Bible, 535 N. Dearborn St., Chicago, Ill. 60610)

18-20. **American Psychosomatic Soc.** annual mtg., Chicago, Ill. (W. A. Greene, The Society, 265 Nassau Rd., Roosevelt, N.Y. 11575)

20-23. **Solar Energy Soc.**, 2nd annual mtg., Boston, Mass. (F. Edlin, Arizona State Univ., Tempe 85281)

21-24. **Aerospace Instrumentation**, 4th intern. symp., College of Aeronautics, Cranfield, England. (E. K. Merewether, ISA Aerospace Industry Div., 4515 Canoga Ave., Woodland Hills, Calif.)

21-25. **Institute of Electrical and Electronics Engineers**, intern. conv., New York, N.Y. (IEEE, 345 E. 47 St., New York)

22-23. **Blomagnetics**, 3rd intern. symp., Univ. of Illinois, Chicago. (M. F. Bar-nothy, Univ. of Illinois, 833 S. Wood St., Chicago)

22-23. **Modern Concepts of Cardiovascular Diseases**, conf. and workshop, Reno, Nev. (G. T. Smith, Laboratory of Patho-Physiology, Univ. of Nevada, Reno 89507)

22-24. **Measurement and Applications of Neutron Cross Sections**, conf., Washington, D.C. (W. W. Havens, Dept. of Physics, Columbia Univ., 538 W. 120 St., New York 10027)

22-31. **American Chemical Soc.**, spring mtg., Pittsburgh, Pa. (ACS, 1155 16th St., NW, Washington, D.C.)

23-25. **Institute of Mathematical Statistics**, Purdue Univ., Lafayette, Ind. (G. E. Nicholson, Jr., Univ. of North Carolina, Chapel Hill)

23-25. **Modern Methods of Weather Forecasting and Analysis**, Chicago, Ill. (J. R. Fulks, U.S. Weather Bureau, 5730 S. Woodlawn Ave., Chicago)

24-26. **Biomathematics and Computer Science in the Life Sciences**, symp., Houston, Tex. (Dean, Div. of Continuing Education, Univ. of Texas Graduate School of Biomedical Sciences, Texas Medical Center, Houston 77025)

24-26. **Pediatric and Adolescent Gynecology**, conf., New York Acad. of Sciences, New York. (W. R. Lang, Jefferson Medical College of Philadelphia, 1025 Walnut St., Philadelphia, Pa.)

24-26. **Pollution and Marine Ecology**, conf., Galveston, Tex. (S. M. Ray, Texas A&M Univ. Marine Laboratory, Galveston 77550)

24-27. **International Assoc. for Dental Research**, 44th general mtg., Miami, Fla. (G. H. Rovelstad, U.S. Navy Dental School, Natl. Naval Medical Center, Bethesda, Md. 20014)

25-26. **National Assoc. of Biology Teachers**, western regional conv., Los Angeles, Calif. (The Association, Professional Building, Great Falls, Mont.)

26-2. **Stress Analysis**, 3rd intern. conf., Berlin, Germany. (H. Kotthaus, Verein Deutscher Ingenieure, Prinz-Georg Str. 77/79, 4 Düsseldorf 10)

26-27. **Arizona Chest Disease Symp.**, Tucson. (E. A. Oppenheimer, P.O. Box 6067, Tucson 85716)

27-30. **American Assoc. of Dental Schools**, Miami Beach, Fla. (R. Sullens, 840 N. Lake Shore Dr., Chicago, Ill.)

28-30. **Great Lakes Research**, 9th conf., Chicago, Ill. (B. M. McCormac, IIT Research Inst., 10 W. 35 St., Chicago 60616)

28-31. **Collegium Intern. Neuro-Psychopharmacologicum**, 5th biennial mtg., Washington, D.C. (M. K. Taylor, 3636 16th St., NW, Washington 20010)

29-31. **Airborne Infection**, 2nd intern. conf., Illinois Inst. of Technology, Chicago. (E. K. Wolfe, U.S. Army Biological Laboratories, Fort Detrick, Frederick, Md.)

29-31. **Applied Meteorology**, 6th natl. conf., Los Angeles, Calif. (B. N. Charles, Booz-Allen Applied Research, 6151 W. Century Blvd., Los Angeles 90045)

29-31. **Chemical Soc.**, anniversary mtgs., Oxford, England. (General Secretary, Burlington House, London W.1)

29-31. **Surface-Active Substances**, intern. conf., Berlin, East Germany. (Inst. für Fettchemie, Deutsche Akademie der Wissenschaften zu Berlin, Rudower Chaussee 5, 1199 Berlin-Adlershof)

29-31. **Symbolic and Algebraic Manipulation**, symp., Assoc. for Computing Machinery, Washington, D.C. (J. E. Sammet, I.B.M. Corp., 545 Technology Sq., Cambridge, Mass. 02139)

29-1. **American Assoc. for Contamination Control**, 5th annual technical mtg., Houston, Tex. (W. T. Maloney, The Association, 6 Beacon St., Boston, Mass.)

29-1. **Ultraviolet and X-ray Spectroscopy of Laboratory and Astrophysical Plasma**, conf., Abingdon, England. (Inst. of Physics and the Physics Soc., 47 Belgrave Sq., London, S.W.1, England)

30. **Oral Cancer**, 4th symp., St. Francis Hospital, Poughkeepsie, N.Y. (M. A. Engelman, 1 E. Academy St., Wappingers Falls, N.Y.)

30-1. **Magnetohydrodynamics**, 7th symp., Princeton, N.J. (R. G. Jahn, Guggenheim Laboratories, Forrestal Research Center, Princeton, N.J. 08540)

31-2. **Michigan Acad. of Science, Arts, and Letters**, Wayne State Univ., Detroit. (E. A. Wunsch, Dept. of English, Univ. of Michigan, Ann Arbor)

April

1-2. **Alabama Acad. of Science**, Birmingham-Southern College, Birmingham. (W. B. DeVall, Dept. of Forestry, Auburn Univ., Auburn, Ala.)

1-2. **Arkansas Acad. of Science**, Little Rock. (G. E. Templeton, Univ. of Arkansas, Fayetteville)

1-5. **National Science Teachers Assoc.**, New York, N.Y. (R. H. Carleton, 1201 16th St., NW, Washington, D.C. 20036)

1-7. **American Acad. of General Practice**, Boston, Mass. (M. F. Cahal, Volker Blvd. at Brookside, Kansas City 12, Mo.)

4-6. **Atomic Energy Soc. of Japan**, annual mtg., Tokyo. (M. Masamoto, Japan Atomic Energy Research Inst., 1-1, Shibata-mura-cho, Minato-ku, Tokyo)

4-6. **Exobiology**, conf., Ames Research Center, Moffett Field, Calif. (Letters and Science Extension, Univ. of California, Berkeley 94720)

4-6. **American Assoc. of Physical Anthropologists**, Berkeley, Calif. (F. E. Johnston, Dept. of Anthropology, Univ. of Pennsylvania, Philadelphia 19104)

4-7. **Federation of European Biochemical Soc.**, 3rd mtg., Warsaw, Poland. (T. Klopowski, Polish Biochemical Soc., Freta 16, Warsaw)

4-7. **Advances in Water Quality Improvement**, conf., Univ. of Texas, Austin. (Special Lecture Series, Engineering Laboratories Bldg. 305, Univ. of Texas, Austin)

4-8. **International Biological Program**, 2nd general assembly, Paris, France. (F. W. G. Baker, 2 via Sebenico, Rome, Italy)

4-10. **Psychology**, 10th inter-American congr., Lima, Peru. (Intern. Soc. of Psychology, 2104 Meadowbrook Dr., Austin, Tex.)

5-7. **Middle East Neurosurgical Soc.**, mtg., Jerusalem, Jordan. (F. S. Haddad, Orient Hospital, Beirut, Lebanon)

5-8. **American Assoc. of Anatomists**, San Francisco, Calif. (R. T. Woodburne, Dept. of Anatomy, Univ. of Michigan, Ann Arbor 48104)

6-7. **Phlebology**, 6th intern. mtg., Aix-en-Provence, France. (F. Beurrier, 94, cours Sextius, Aix-en-Provence)

6-8. **Electron and Laser Beam Technology**, Univ. of Michigan, Ann Arbor. (G. I. Haddad, Electrical Engineering Dept., Univ. of Michigan, Ann Arbor)

6-8. **Recent Advances in Phytochemistry**, intern. symp., Univ. of Texas, Austin. (T. J. Mabry, Dept. of Botany, Univ. of Texas, Austin 78712)

6-8. **Plant Phenolic Group of North America**, 6th annual mtg., Austin, Tex. (V. C. Runeckles, Imperial Tobacco Co., Montreal, P.Q., Canada)

7-8. **Southern Sociological Soc.**, annual mtg., New Orleans, La. (J. J. Honigmann, Dept. of Anthropology, Univ. of North Carolina, Chapel Hill)

7-9. **Southern Soc. for Philosophy and Psychology**, New Orleans, La. (G. R. Hawkes, U.S. Army Medical R&D Command, Washington, D.C. 20315)

8-9. **American Soc. for Artificial Internal Organs**, Atlantic City, N.J. (B. K. Kusserow, Dept. of Pathology, Univ. of Vermont College of Medicine, Burlington)

8-11. **Animal Toxins**, intern. symp., Atlantic City, N.J. (F. E. Russell, Box 323, Los Angeles County General Hospital, 1200 N. State St., Los Angeles, Calif. 90033)

11-13. **Institute of Electrical and Electronics Engineers**, Region 3, conv., Atlanta, Ga. (M. D. Price, Dept. 72-14, Zone 400, Lockheed-Georgia Co., Marietta, Ga.)

11-13. **Comparative Hemoglobin Structure**, intern. symp., Salonika, Greece. (Secretary, P.O. Box 201, Salonika)

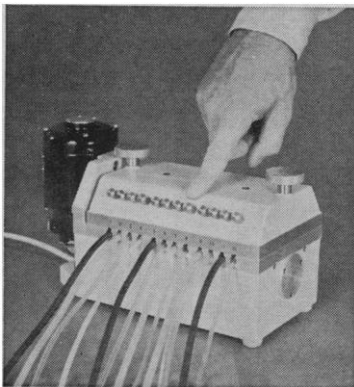
11-15. **Aeronomic Studies of Lower Ionosphere**, conf., Ottawa, Ont., Canada. (W. Pfister, Air Force Cambridge Research Laboratories, Upper Atmosphere Physics Laboratory, L. G. Hanscom Field, Bedford, Mass.)

11-15. **American Assoc. of Cereal Chemists**, New York, N.Y. (R. J. Tarleton, The Association, 1955 University Ave., St. Paul, Minn. 55104)

11-16. **Federation of American Societies for Experimental Biology**, 50th annual mtg., Atlantic City, N.J. The following societies will meet in conjunction with the FASEB; information may be obtained from FASEB, 9650 Rockville Pike, Bethesda, Maryland 20014:

American Physiological Society
American Soc. of Biological Chemists
American Soc. for Pharmacology and Experimental Therapeutics

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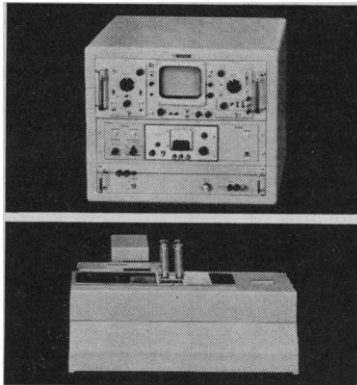
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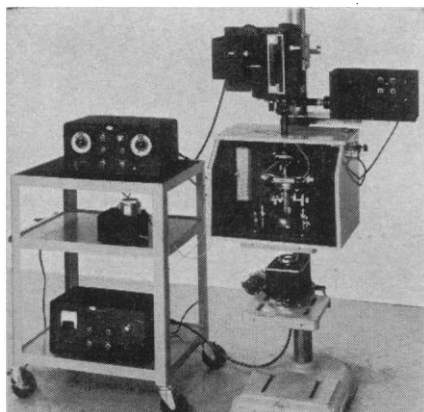
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American Soc. for Experimental Pathology

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12-13. **Frontiers in Food Research**, symp., Cornell Univ., Ithaca, N.Y. (W. F. Shipe, Dept. of Dairy and Food Science, Cornell Univ., Ithaca)

12-14. **Generalized Networks**, intern. symp., New York, N.Y. (H. J. Carlin, Polytechnic Inst. of Brooklyn, 333 Jay St., Brooklyn, N.Y. 11201)

12-14. **Remote Sensing of Environment**, 4th symp., Univ. of Michigan, Ann Arbor. (Extension Service, Conference Dept., Univ. of Michigan, Ann Arbor 48104)

12-15. **Quantum Electronics**, intern. conf., Phoenix, Ariz. (J. P. Gordon, Bell Telephone Laboratories, Murray Hill, N.J.)

12-16. **Society for Applied Mathematics and Mechanics**, annual scientific mtg., Darmstadt, Germany. (F. Reutter, Gesellschaft für Angewandte Mathematik und Mechanik, Templergraben 55, 51, Aachen, Germany)

12-29. **Soil Conservation**, 1st Pan American congr., São Paulo, Brazil. (J. Abramides Neto, avda. Francisco Matarazzo 455, Caixa Postal 8366, São Paulo)

13-15. **Institute of Environmental Sciences**, 12th annual tech. mtg. and equipment exp., San Diego, Calif. (The Institute, 34 S. Main St., Mount Prospect, Ill. 60057)

13-16. **Geological Soc. of America**, southeast section, Univ. of Georgia, Athens. (L. D. Ramspott, Dept. of Geology, Univ. of Georgia, Athens 30601)

13-16. **American Orthopsychiatric Assoc.**, 43rd annual mtg., San Francisco, Calif. (M. F. Langer, The Association, 1790 Broadway, New York 10019)

13-16. **American Radium Soc.**, annual mtg., Phoenix, Ariz. (J. L. Pool, Memorial Soc., 444 E. 68 St., New York 10021)

13-16. **National Council of Teachers of Mathematics**, 44th annual mtg., New York, N.Y. (J. D. Gates, 1201 16th St., NW, Washington, D.C. 20036)

14-15. **British Biophysical Soc.**, spring mtg., Oxford, England. (D. Noble, Balliol College, Oxford)

14-15. **Molecular Interactions and the Crystallography of Ceramics**, Univ. of Nottingham, Nottingham, England. (S. C. Wallwork, Dept. of Chemistry, Univ. of Nottingham, University Park, Nottingham)

14-16. **Association of Southeastern Biologists**, Raleigh, N.C. (M. Y. Menzel, Dept. of Biological Sciences, Florida State Univ., Tallahassee)

14-16. **American Cleft Palate Assoc.**, Mexico City, Mexico. (C. G. Wells, Parker Hall, Univ. of Missouri, Columbia)

14-16. **Eastern Psychological Assoc.**, New York, N.Y. (M. A. Iverson, Queens College, Flushing, N.Y. 11367)

14-17. **American Assoc. of Endodontists**, 23rd annual mtg., San Francisco, Calif. (J. F. Bucher, 6828 Winterberry Lane, Bethesda, Md. 20034)

14-19. **American Dermatological Assoc.**, Hot Springs, Va. (R. R. Kierland, Mayo Clinic, Rochester, Minn.)

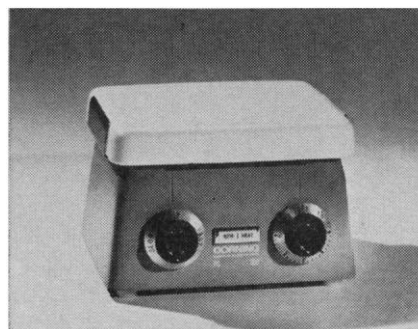
14-20. **Geodetical Measuring Technique and Instruments**, conf., Budapest, Hungary. (F. Raum, Preparatory Committee



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15-16. Iowa Acad. of Science, Pella. (G. W. Peglar, Dept. of Mathematics, Iowa State Univ., Ames)

15-16. Montana Acad. of Sciences, Missoula. (L. H. Harvey, Univ. of Montana, Missoula 59801)

15-17. American Soc. of Internal Medicine, New York, N.Y. (A. O. Whitehall, 3410 Geary Blvd., San Francisco, Calif. 95118)

16-18. Lateral Line Detectors, intern. conf., New York, N.Y. (P. H. Cahn, Stern College, Yeshiva Univ., 253 Lexington Ave., New York 10016)

17-20. Electron and Ion Beam Science and Technology, 2nd intern. conf., American Inst. of Mining, Metallurgical, and Petroleum Engineers, New York, N.Y. (H. N. Appleton, 345 E. 47 St., New York 10017)

18-19. American Otological Soc., San Juan, P.R. (W. H. Bradley, 1100 E. Genessee St., Syracuse, N.Y.)

18-20. Thermodynamics of Ceramic Systems, mtg., London, England. (J. P. Roberts, British Ceramics Soc., Houldsworth School of Applied Science, Univ. of Leeds, Leeds 2, England)

18-20. Technical Microbiology, symp., Berlin, Germany. (S. Windisch, Inst. für Gärungsgewerbe, Seestrass, 13, 1 Berlin 65)

18-20. Structures and Materials, 7th conf., Cocoa Beach, Fla. (R. W. Leonard, NASA-Langley Research Center, Mail Stop 188C, Langley Station, Hampton, Va. 23365)

18-21. Aerospace Medical Assoc., 37th annual scientific mtg., Las Vegas, Nev. (C. A. Berry, Chief of Center Medical Programs, NASA-Manned Spacecraft Center, Houston, Tex. 77058)

18-21. Tectonic Levels in the Earth's Crust, intern. symp., Neuchatel, Switzerland. (J.-P. Schaer, Dept. of Geology, University, 11 rue Emile Argand, 200 Neuchatel)

18-22. American Assoc. of Corrosion Engineers, 22nd annual mtg., Miami Beach, Fla. (N. E. Hamner, The Association, 980 M&M Bldg., Houston, Tex.)

18-22. Applications of Liquid Fuels, conf., Torquay, England. (Inst. of Fuel, 18 Devonshire St., Portland Pl., London, W.1, England)

18-22. American College of Physicians, New York, N.Y. (E. C. Rosenow, Jr., 4200 Pine St., Philadelphia 4, Pa.)

18-23. International Soc. for Photogrammetry, technical commissions, Munich, Germany. (G. Krauss, Deutsche Gesellschaft für Photogrammetrie, Waase-mstr. 19-21, Bad Godesberg, Germany)

19-21. Frequency Control, 20th annual symp., U.S. Army Electronics Command, Atlantic City, N.J. [Director, Electronics Components Laboratory, U.S. Army Electronics Command, Attn: AMSEL-KT-ST (M. F. Timm), Fort Monmouth, N.J. 07703]

19-22. American Geophysical Union, 47th annual mtg., Washington, D.C. (W. E. Smith, AGU, 1145 19th St., NW, Washington, 20036)

19-22. Microwave Communications, 3rd colloquium, Budapest, Hungary. (Valko Peterne, Szabadsag ter 17, Budapest)

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