

and (ii) addition to a double bond. A. M. Trozzolo, E. Wasserman, and W. A. Yager (Bell Laboratories) had applied electron spin resonance to the study of the structure and isomerism of ground-state triplet methylenes. Geometric isomerism was detected in the naphthylmethylenes. Studies of methylenes by electron absorption spectroscopy were presented also. J. W. Johns (National Research Council, Ottawa) observed the methylenes HFC and HCCI, obtained in the flash photolysis of dibromofluoromethane and dibromochloromethane. G. L. Closs (University of Chicago) had studied the electron absorption spectrum of diphenylmethylene oriented in single crystals of diphenylethylene. By an elegant combination with ESR results, it was possible to obtain the polarized spectrum. Narrow-line vibrational structure also was observed. Evidence for the formation of carbenes in the reaction of hydrogen atoms with polyhalomethanes was given by J. M. Tedder (St. Andrews). A vibrationally excited polyhalomethane was postulated as an intermediate that undergoes unimolecular decomposition to yield the dihalocarbene and hydrogen halide.

Other contributions to the discus-

sion included descriptions of studies of bisnitroxides, thermochromic molecules, reactions of carbon suboxide, sulfur monoxide, and production of triplet states by pulse radiolysis.

L. C. SNYDER
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Forthcoming Events

December

1-2. **UNESCO**, 75th executive board session, Paris, France. (Pl. de Fontenoy, Paris 7)

1-3. **Medicine and Sociology**, intern. symp., East Berlin, Germany. (K. Winter, Hygiene-Institut Humboldt-Universität, Otto-Grotewohl-str. 1, 108 Berlin, East Germany)

1-8. **Heads of National Research Insts.**, mtg., Bangkok, Thailand. (U.N. Economic Commission for Asia and the Far East, Sala Santitham, Rajadamnern Ave., Bangkok)

2. American **Industrial Hygiene Assoc.**, mtg., Metropolitan New York, New Jersey, Delaware sections, Sterling Forest, N.Y. (O. M. Banks, Shell Chemical Co., 110 W. 51 St., New York 10020)

2-3. **Perspectives in Leukemia**, symp., New Orleans, La. (W. Dameshek, Leukemia Society, 211 E. 43 St., New York 10017)

2-3. **Nuclear Power Stations Operation**, conf., Bern, Switzerland. (Swiss Assoc. for Atomic Energy, P.O. Box 2613, 3001 Bern)

3-4. **Space Flight**, conf., Bremen, Germany. (Secretariat, Hermann Oberth Soc., Fritz-Beindorff-allee 9, 3000 Hanover, West Germany)

3-8. American Acad. of **Dermatology and Syphilology**, 25th annual mtg., Miami Beach, Fla. (The Academy, 636 Church St., Evanston, Ill.)

3-11. **Aviation and Aerospace**, intern. exposition, New York, N.Y. (F. S. Doman, Aviation and Aerospace Exposition, Inc., 500 Fifth Ave., New York 10036)

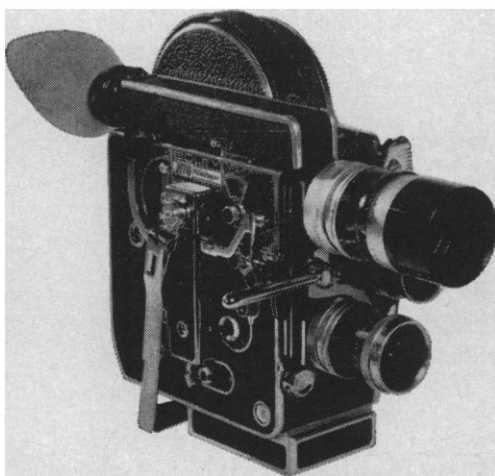
4-7. American Inst. of **Chemical Engineers**, 59th annual mtg., Detroit, Mich. (E. B. Chriswell, California Research Corp., Room 807, 200 Bush St., San Francisco, Calif.)

4-8. American Inst. of **Chemical Engineers**, 59th annual mtg., Detroit, Mich. (R. E. Greenhaigh, Dow Corning Corp., Midland, Mich.)

5-7. **Antennas and Propagation**, intern. symp., Palo Alto, Calif. (R. L. Deada-brand, Radio Physics Laboratory, Stanford Research Inst., Menlo Park, Calif.)

7. **American Institute of the City of New York**, mtg., New York. (Mrs. G. E. Peterson, American Institute of the City of New York, 2 E. 63 St., New York 10021)

5-7. **Theory and Application of Gas**



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Chromatography in Industry and Medicine, Hahnemann Medical College, Philadelphia, Pa. (H. S. Kroman, Dept. of Medicine, Medical College and Hospital, 230 N. Broad St., Philadelphia 19102)

5-8. **Magnesium in Biophysiology and Therapeutics**, intern. congr., Buenos Aires, Argentina. (A. Vidal Freyre, Ayacucho 1427, Buenos Aires)

5-8. **Polarized Targets and Ion Sources**, intern. conf., Saclay, France. (A. Abragam, Direction de la Physique, Centre d'Etudes Nucleaires de Saclay, B.P. 2, Gif-sur-Yvette, Seine-et-Oise, France)

5-9. **Operating Metallurgy**, 2nd conf. and exposition, Philadelphia, Pa. (C. L. Hopkins, American Inst. of Mining, Metallurgical, and Petroleum Engineers, 345 E. 47 St., New York 10017)

6-7. **Unconventional Inertial Sensors**, symp., Washington, D.C. (J. W. Lindberg, AIR 53321G, Naval Air Systems Command, Washington, D.C. 20360)

7-9. **International Scientific Radio Union**, fall mtg., Palo Alto, Calif. (R. A. Helliwell, Radioscience Laboratory, Stanford Univ., Stanford, Calif. 94305)

8-11. **Rodents**, Indian symp., Calcutta. (D. W. Parrack, Johns Hopkins Univ. Center for Medical Research and Training, All-India Inst. of Hygiene and Public Health, 110 Chittaranjan Ave., Calcutta 12)

9-10. **Contractile Process**, symp., New York Heart Assoc., New York. (The Association, 10 Columbus Circle, New York 10019)

9-11. American Acad. of **Psychoanalysis**, mtg., New York, N.Y. (M. Carroll, The Academy, 125 E. 65 St., New York 10021)

12-14. **Air Pollution**, natl. conf., Washington, D.C. (A. C. Stern, Div. of Air Pollution, U.S. Public Health Service, Washington, D.C. 20201)

12-14. **Renal Failure**, 17th symp., Hahnemann Medical College, Philadelphia, Pa. (A. N. Brest, Section of Vascular Diseases and Renology, Hahnemann Medical College and Hospital, 230 N. Broad St., Philadelphia 19102)

12-17. **History of Oceanography**, intern. congr., Monte Carlo. (R. Novella, Villa Girasole, 16, boulevard de Suisse, Monaco)

12-19. **Heads of National Standards Institutes**, mtg., Bangkok, Thailand. (U.N., Economic Commission for Asia and the Far East, Sala Santitham, Rajadamnern Ave., Bangkok)

14-16. **Fundamentals of Gas-Surface Interactions**, symp., San Diego, Calif. (H. Saltsburgh, General Dynamics/General Atomic, P.O. Box 608, San Diego 92112)

14-16. **Fluid Logic and Amplification**, 2nd intern. conf., Cranfield, England. (H. Stephens, British Hydromechanics Research Assoc., South Rd., Harlow, Essex, England)

15-16. **International Brain Research Organization**, central council and executive committee, mtg., Paris, France. (UNESCO, Pl. de Fontenoy, Paris 7)

16-18. American **Psychoanalytic Assoc.**, fall mtg., New York, N. Y. (American Psychoanalytic Assoc., 1 E. 57 St., New York 10022)