

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.

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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)

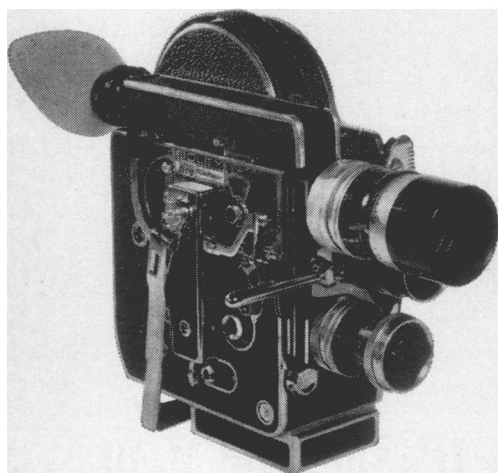
4-7. **American Inst. of Chemical Engineers**, 59th annual mtg., Detroit, Mich. (E. B. Chriswell, California Research Corp., Room 807, 200 Bush St., San Francisco, Calif.)

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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