

ment with climatological averages was obtained, but there were certain regional differences, for example, greater cloudiness over North Africa. Because of the limited period (3 months) and the inferior quality of the later Tiros III pictures, further study along this line would be very desirable.

James Arnold (Chicago) presented some work of T. Fujita which utilized both Tiros pictures and certain of the Tiros radiation data to give the pattern of equivalent blackbody temperatures. The patterns fit very well, and allow for estimating the height of cloud tops. Although radiation data are not yet available operationally, because of calibration and data-reduction problems, this demonstration of combined potential is significant for the future, especially for tropical areas where data are sparse. Erickson earlier had pointed out that Tiros measurements of outgoing, long-wave radiation had been used in preliminary studies of the earth-atmosphere heat budget and that more extensive data would permit global studies not heretofore possible.

Research with Tiros VII radiation measurements in the 15-micron CO_2 band was described by W. Nordberg (NASA, Greenbelt, Md.). Assuming a uniform mixing ratio of CO_2 with altitude, these measurements were interpreted in terms of mean equivalent blackbody temperatures and gave the gross temperature structure of the stratosphere. A more sophisticated effort, using spectrometer measurements from several narrow intervals in the 15-micron band, is planned for the future. The spectrometer will first be flown from a balloon, and the measurements from several intervals are expected to aid a more detailed analysis of stratospheric temperatures.

Julius London (University of Colorado) arranged the program for this and other meteorology sessions. The entire meeting was favored by delightful weather for the season.

CARL O. ERICKSON

U.S. Weather Bureau, Washington, D.C.

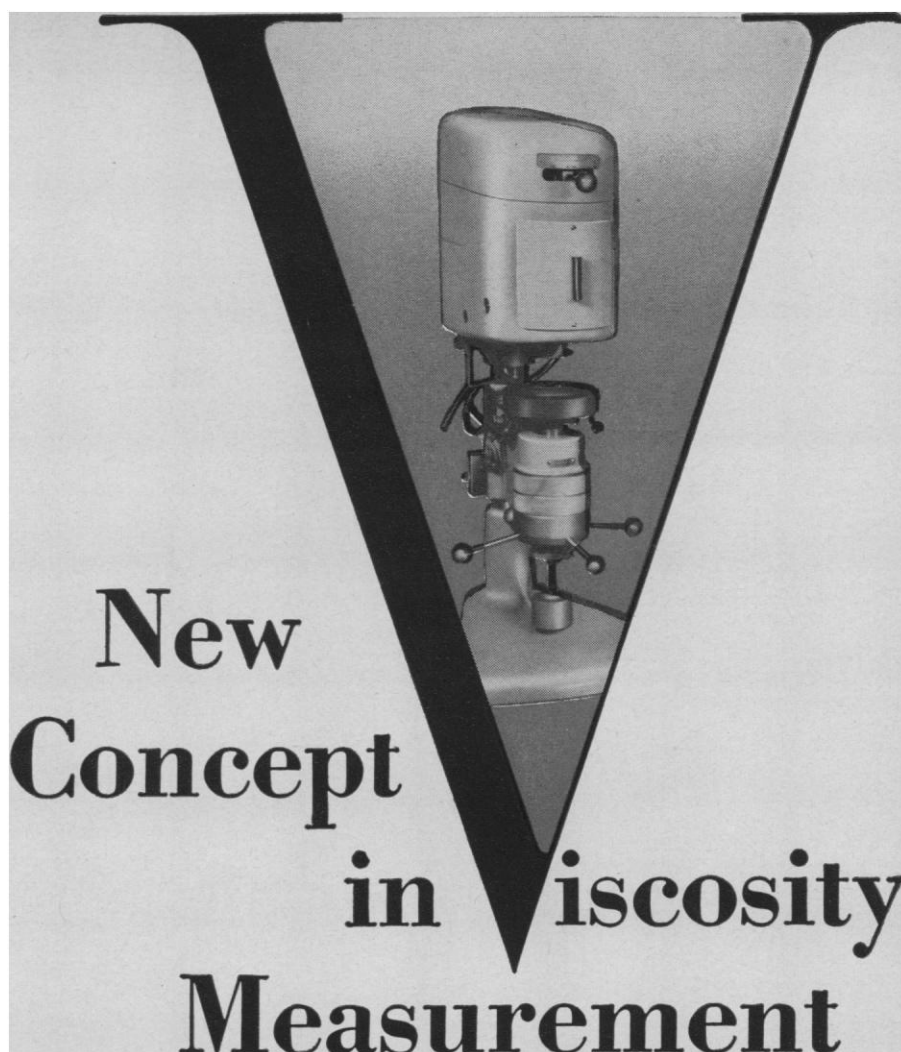
Forthcoming Events

February

12-16. American College of Cardiology, 13th annual, New Orleans, La. (P. Reichert, Empire State Bldg., New York, N.Y. 10001)

13-14. Texas Industrial Pharmacy Seminar, Austin. (L. R. Parker, Pharmacy Extension Service, Univ. of Texas, Austin)

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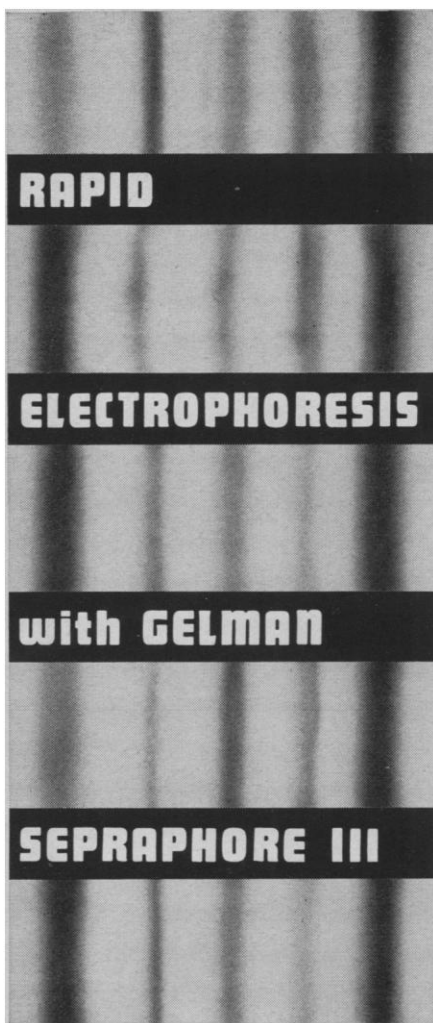
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15-16. **Atomic Energy**, Japanese natl. symp., Tokyo. (Atomic Energy Soc. of Japan c/o Atomic Energy Research Inst., 1-1 Shiba-tamura-cho, Minato-ku, Tokyo)

16-22. **National Engineers' Week**, sponsored by the National Society of Professional Engineers. (2029 K St., NW, Washington, D.C. 20006)

17-19. **American Standards Assoc.**, 14th annual conf., Washington, D.C. (ASA, 10 E. 40 St., New York, N.Y. 10016)

17-20. **Metals for Use at High Temperature**, intern. symp., New York, N.Y. (D. A. Parks, Metallurgical Soc., 345 E. 47 St., New York, N.Y. 10017).

17-21. **Information Storage and Retrieval**, 6th, Washington, D.C. (L. W. Hattery, American Univ., 1901 F St., NW, Washington, D.C. 20006)

19-21. **National Soc. of College Teachers of Education**, Chicago, Ill. (E. J. Clark, Indiana State College, Terre Haute, Ind.)

19-21. **Solid-State Circuits**, intern. conf., Philadelphia, Pa. (L. Winner, 152 W. 42 St., New York, N.Y. 10036)

19-22. **American Educational Research Assoc.**, Chicago, Ill. (J. R. Gerberich, 1201 16th St., NW, Washington, D.C.)

19-5. **Pan American Medical Assoc.**, 39th congr., the Americas, during a cruise aboard the S.S. *Independence*. (J. J. Eller, 745 Fifth Ave., New York, N.Y.)

23-27. **Technical Assoc. of the Pulp and Paper Industry**, 49th annual, New York, N.Y. (TAPPI, 360 Lexington Ave., New York, N.Y. 10017)

23-28. **Otorhinolaryngology and Bronchoesophagology**, 9th Pan American congr., Bogota, Colombia. (C. M. Norris, 3401 N. Broad St., Philadelphia, Pa.)

24-25. **Atmospheric Movements of Radioactive Materials**, Geneva, Switzerland. (World Meteorological Organization, Geneva)

24-25. **Writing-Improvement Programs for Engineers**, seminar, New York, N.Y. (C. A. Meyer, RCA Commercial Engineering, Harrison, N.J.)

24-28. **Institution of Electrical Engineers**, intern. conf. on transmission aspects of communications networks, London, England. (IEE, Savoy Pl., London, W.C.2)

25-26. **Dairy Engineering**, natl. conf., East Lansing, Mich. (C. W. Hall, College of Agriculture, Michigan State Univ., East Lansing)

26-28. **Biophysical Soc.**, Chicago, Ill. (W. Sleator, Jr., Washington Univ. Medical School, 660 Kingshighway, St. Louis 10, Mo.)

26-28. **Scintillation and Semiconductor** symp., Washington, D.C. (G. A. Morton, RCA Laboratories, Princeton, N.J.)

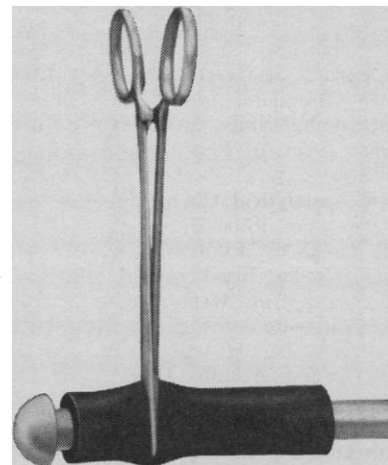
27-28. **Cellular Basis for the Action of Cardiac Drugs**, Philadelphia, Pa. (Heart Assoc. of Southeastern Pa., 318 S. 19 St., Philadelphia 3)

27-28. **National Assoc. for Mental Health**, annual conf., London, England. (General Secty., 39 Queen Anne St., London, W.C.1)

27-29. **American Acad. of Forensic Sciences**, Chicago, Ill. (W. J. R. Camp, 1853 W. Polk St., Chicago 12)

27-29. **American Physical Soc.**, Tucson, Ariz. (K. K. Darrows, American Physical Soc., Columbia Univ., New York, N.Y.)

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March

1-4. Canadian Assoc. of Radiologists, annual, Vancouver, B.C. (A. I. Ekstrand, 1555 Summerhill Ave., Montreal 25, P.Q., Canada)

1-5. Raman Spectroscopy, colloquium, Stuttgart, Germany. (J. Goubeau, Dept. of Chemistry, Technische Hochschule Stuttgart, 7 Stuttgart N)

2-4. Fundamental Cancer Research, 18th annual symp., Houston, Tex. (R. J. Shalek, Dept. of Physics, Univ. of Texas, Houston)

2-6. Analytical Chemistry and Applied Spectroscopy, Pittsburgh, Pa. (R. B. Fricioni, Allegheny Ludlum Steel Corp., Research Center, Brackenridge, Pa.)

2-6. Applied Meteorology, 5th conf., American Meteorological Soc., Atlantic City, N.J. (A. Hilsenrod, Federal Aviation Agency, Atlantic City)

3-7. Inter-American Nuclear Energy Commission, 5th, Valparaiso, Chile. (Pan American Union, Constitution Ave., NW, Washington, D.C. 20006)

3-21. World Health Assembly, 17th annual, Geneva, Switzerland. (WHO, Palais des Nations, Geneva)

4-6. Thermal Radiation of Solids, symp., San Francisco, Calif. (W. D. Harris, Engineering and Sciences Extension, Univ. of California, Berkeley 4)

5-6. Theoretical and Applied Mechanics, southeastern meeting, Atlanta, Ga. (Dept. of Short Courses and Conferences, Georgia Inst. of Technology, Atlanta 30332)

5-7. Macromolecular Colloquium, Freiburg im Breisgau, Germany. (Institut für Makromolekulare Chemie, Univ. Freiburg, Stefan-Meier-Str. 31, 78 Freiburg im Breisgau)

5-7. Pacific Sociological Assoc., Colorado, Calif. (S. M. Dornbusch, Stanford Univ., Stanford, Calif.)

6-8. Society of Nuclear Medicine, southwestern chapter, Houston, Tex. (S. N. Turiel, SNM, 333 North Michigan Ave., Chicago 1, Ill.)

6-8. National Wildlife Federation, 28th annual, Las Vegas, Nev. (NWF, 1412 16th St., NW, Washington, D.C. 20036)

7-12. Proctology, 16th teaching seminar, Miami Beach, Fla. (J. Reichert, 147-41 Sanford Ave., Flushing, N.Y. 11355)

8-12. Water Resources Engineering, conf., Mobile, Ala. (American Soc. of Civil Engineers, 345 E. 47 St., New York 10017)

8-15. North American Clinical Dermatologic Soc., Mexico City, Mexico. (E. F. Finnerty, 510 Commonwealth Ave., Boston, Mass.)

9-10. Aerodynamic Testing Conf., American Inst. of Aeronautics and Astronautics, Washington, D.C. (J. N. Fresh, David Taylor Model Basin, Code 630, U.S. Navy, Washington, D.C.)

9-11. Computers in Education, conf., Eugene, Ore. (J. W. Loughary, School of Education, Univ. of Oregon, Eugene)

9-11. Society of Toxicology, annual, Williamsburg, Va. (C. S. Weil, Mellon Inst., 4400 Fifth Ave., Pittsburgh, Pa. 15213)

9-13. National Assoc. of Corrosion Engineers, 20th conf., Chicago, Ill. (W. H.

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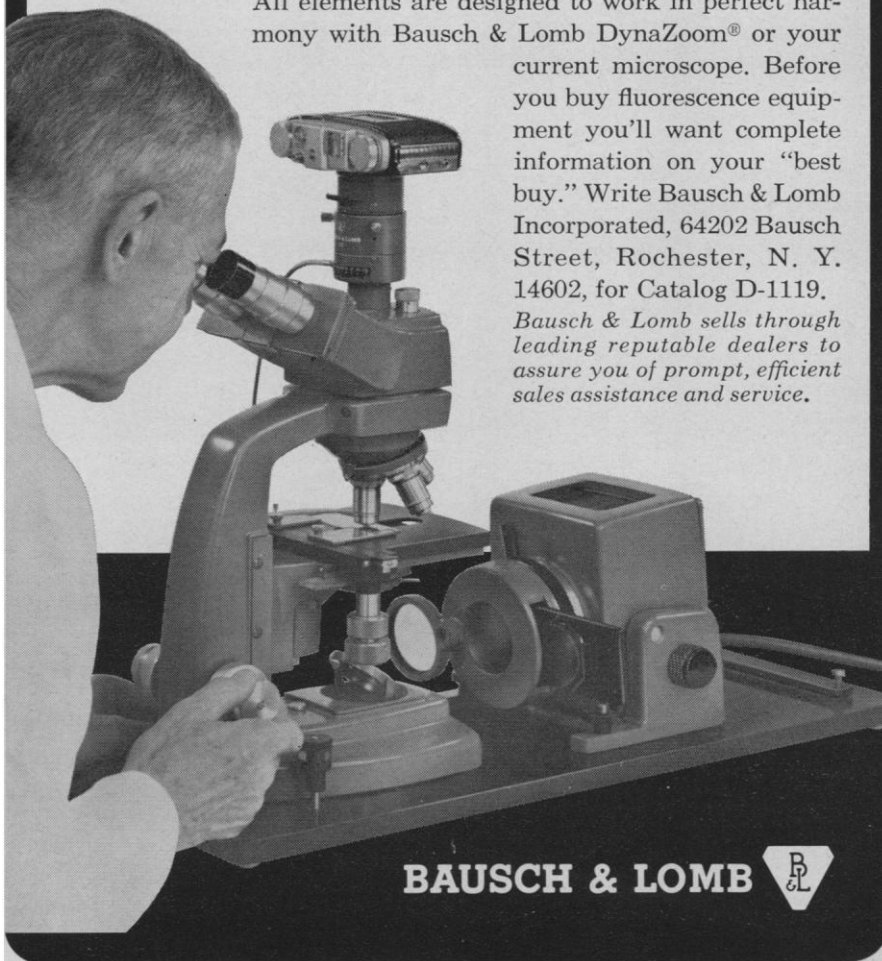
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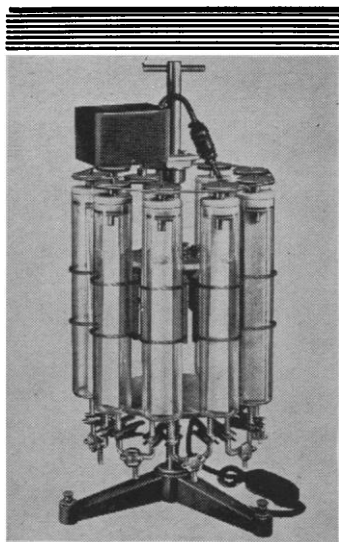
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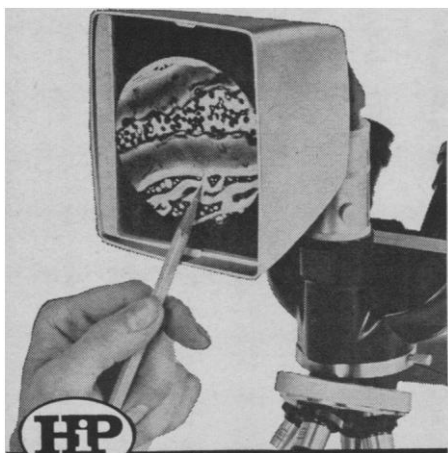
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9-13. Peaceful Applications of Nuclear Energy, 5th inter-American symp., Valparaiso, Chile. (J. D. Perkinson, Inter-American Nuclear Energy Commission, Pan American Union, Washington, D.C.)

10-12. Exploding Conductor Phenomena, 3rd conf., Boston, Mass. (W. G. Chace, Air Force Cambridge Research Laboratories, Hanscom Field, Bedford, Mass.)

10-14. American Inst. of Chemical Engineers, New Orleans, La. (AIChE, 345 E. 47 St., New York 17)

11-12. Instrument Soc. of America, 14th conf. on instrumentation for the iron and steel industry, Pittsburgh, Pa. (N. F. Simcic, Research Laboratory, Jones and Laughlin Steel Corp., 900 Agnew Rd., Pittsburgh 30)

12. Interplanetary Monitoring Platform Experiments, symp., Greenbelt, Md. (C. P. Boyle, Code 207, Goddard Space Flight Center, Greenbelt, Md. 20771)

12-13. Information Organization, New Brunswick, N.J. (S. Artandi, Graduate School of Library Service, Rutgers Univ., New Brunswick)

12-15. International College of Applied Nutrition, Las Vegas, Nev. (D. C. Collins, Suite 503, 7046 Hollywood Blvd., Los Angeles, Calif. 90028)

13-14. Louisiana Acad. of Sciences, Baton Rouge. (H. J. Bennett, Dept. of Zoology, Louisiana State Univ., Baton Rouge)

13-14. Institute of Management Sciences, 11th intern., Pittsburgh, Pa. (IMS, Box 273, Pleasantville, N.Y.)

13-14. Effects of Shock and Vibration on the human body, Denver, Colo. (A. E. Paige, Dept. of Electrical Engineering, University of Denver, Denver)

14-15. Endocrinology, 2nd annual symp., Salisbury, N.C. (H. Nushan, Medical Service, Veterans Administration Hospital, Salisbury)

14-19. American Assoc. of Psychiatric Clinics for Children, annual, Chicago, Ill. (AAPCC, 250 W. 57 St., New York 19)

15-19. Microcirculation, 3rd European conf., Jerusalem, Israel. (E. Davis, Capillary Research Laboratory, Hadassah Univ. Hospital, P.O. Box 499, Jerusalem)

15-21. American Soc. of Photogrammetry, congr. on surveying and mapping, Washington, D.C. (ASP, 44 Leesburg Pike, Falls Church, Va.)

17-18. Hypervelocity Flight Techniques, symp., Denver, Colo. (W. G. Howell Denver Research Inst., Univ. of Denver, Denver Colo. 80210)

17-19. Society for Nondestructive Testing, Los Angeles, Calif. (D. E. O'Halloran, Northrop Corp., 1001 E. Broadway, Hawthorne, Calif.)

17-19. Statistical Assoc. Methods for Mechanized Documentation, symp., Washington, D.C. (M. E. Stevens, Natl. Bureau of Standards, Washington, D.C. 20234)

17-20. Society of Biological Chemistry, Paris, France. (P. Malangeau, Executive Committee, 4, Avenue de l'Observatoire, Paris 6^e)

18-20. Chemurgic Council, 28th natl. conf., Philadelphia, Pa. (J. W. Ticknor,

Chemurgic Council, 350 Fifth Ave., New York 1)

18-21. Latin **Medical Union**, intern. Congr., Rome, Italy. (B. Urso, Policlinico Umberto I, Viale Policlinico, Rome)

18-21. American **Orthopsychiatric Assoc.**, Chicago, Ill. (M. F. Langer, 1790 Broadway, New York 19)

21-24. **Cybernetic Medicine**, 3rd intern. Congr., Naples, Italy. (A. DeChiara, 348, Via Roma, Naples)

23-24. Society for **Economic Botany**, 5th annual, Chapel Hill, N.C. (D. J. Rogers, New York Botanical Garden, Bronx Park, N.Y.)

23-25. Federation of European **Biochemical Societies**, 1st, London, England. (FEBS, Lister Inst., Chelsea Bridge Rd., London, S.W.1)

23-26. Institute of **Electrical and Electronics Engineers**, intern. conv., New York, N.Y. (IEEE, Box A, Lenox Hill Station, New York 21)

23-26. **Gas Chromatography**, 2nd intern. symp., Houston, Tex. (A. Zlatkis, Dept. of Chemistry, Univ. of Houston, Houston)

23-26. American **Physical Soc.**, Philadelphia, Pa. (K. K. Darrow, Columbia Univ., New York 27)

20-24. National Assoc. for **Research in Science Teaching**, Chicago, Ill. (G. G. Mallinson, Western Michigan Univ., Kalamazoo)

20-24. National **Science Teachers Assoc.**, Chicago, Ill. (R. H. Carleton, 1201 16th St., NW, Washington, D.C.)

21-3. British **Computer Soc.**, conf., Edinburgh, Scotland. (Secretariat, I.E.E., Savoy Pl., London, W.C.2, England)

21-23. Asian-Pacific **Dental Federation**, 4th Congr., Singapore and Malaya. (B. B. Eraña, Manila Doctors Hospital, Isaac Peral St., P.O. Box 373, Manila, Philippines)

22-25. American Assoc. of **Dental Schools**, 41st annual, Los Angeles, Calif. (AADS, 840 Lake Shore Dr., Chicago 11, Ill.)

24-26. Physics and Dynamics of **Clouds**, conf., American Meteorological Soc., Chicago, Ill. (Miss D. L. Bradbury, Dept. of Geophysical Sciences, Univ. of Chicago, Chicago)

25-27. **Aerospace Bearings**, USAF-Southwest Research Inst. conf., unclassified, San Antonio, Tex. (P. M. Ku, SwRI, 8500 Culebra Rd., San Antonio)

25-27. **Entomological Soc. of America**, Northcentral branch, Omaha, Neb. (G. E. Guyer, Dept. of Entomology, Michigan State Univ., East Lansing)

26-28. **Michigan Acad. of Science, Arts and Letters**, East Lansing (G. G. Mallinson, Western Michigan Univ., Kalamazoo)

26-28. Southern Soc. for **Philosophy and Psychology**, 56th annual, Lexington, Ky. (D. Calvin, Psychology Dept., Univ. of Kentucky, Lexington)

26-29. International Assoc. for **Dental Research**, 42nd, Los Angeles, Calif. (J. C. Muhler, 1120 W. Michigan St., Indianapolis, Ind. 46202)

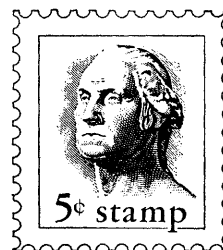
27-28. American **Ethnological Soc.**, Pittsburgh, Pa. (N. F. S. Woodbury, U.S. National Museum, Smithsonian Institution, Washington, D.C.)

27-28. **Seismological Soc. of America**, annual, Seattle, Wash. (K. V. Steinbrugge,

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27-29. Society for the Study of **Evolution**, annual, Chapel Hill, N.C. (H. H. Ross, Illinois Natural History Survey, Urbana)

28-30. American Assoc. of Colleges of **Pharmacy**, Detroit, Mich. (C. W. Bliven, 1507 M St., NW, Washington, D.C. 20005)

29-2. Association of American **Geographers**, annual, Syracuse, N.Y. (AAG 1201 16th St., NW, Washington, D.C.)

30-2. American Assoc. of **Junior Colleges**, Bal Harbour, Fla. (W. G. Shannon, AAJC, 1777 Massachusetts Ave., NW, Washington, D.C. 20036)

31-3. American Assoc. of **Anatomists**, Denver, Colo. (L. B. Flexner, Dept. of Anatomy, Univ. of Pennsylvania, Philadelphia 4)

31-3. **Calcified Tissues**, European symp., Liège, Belgium. (L. J. Richelle, 32, Boulevard de la Constitution, Liège)

April

1. **Thermoplastic Materials**, conf., Soc. of Plastics Engineers, Akron, Ohio. (W. H. Nicol, RETEC, Goodyear Tire and Rubber Co., Akron 16)

1-2. **Engineering Aspects of Magneto-hydrodynamics**, symp., Cambridge, Mass. (G. S. Janes, Avco Everett Research Laboratories, Everett 49, Mass.)

1-2. Methods for Measurement of **Weak Beta-Emitters**, Karlsruhe-Leopoldshaven, Germany. (Gesellschaft Deutscher Chemiker, Gesellschaftsstelle, Postfach 9075, Frankfurt/Main, Germany)

1-3. **Structures and Materials**, American Inst. of Aeronautics and Astronautics, 5th annual conf., Palm Springs, Calif. (R. R. Dexter, AIAA, 2 E. 64 St., New York, N.Y.)

1-3. **Optical** Soc. of America, spring meeting, Washington, D.C. (M. E. Warga, OSA, 1155 16th St., N.W., Washington, D.C. 20036)

1-4. National Soc. for **Programmed Instruction**, annual, San Antonio, Tex. (NSPI Program Committee, Trinity Univ., 715 Stadium Dr., San Antonio, Tex.)

1-5. Latin **Oto-Rhino-Laryngology** Soc., 15th congr., Bologna, Italy. (G. Motta, Via Modica 6, Milan, Italy)

2-3. American Soc. of **Civil Engineers**, Engineering Mechanics Div., spring conf., Boston, Mass. (ASCE, 33 W. 39 St., New York 18)

2-3. Alexander Graham Bell Assoc. for the **Deaf**, southeastern meeting, New Orleans, La. (R. Tegeder, Utah School for the Deaf, 846 20th St., Ogden)

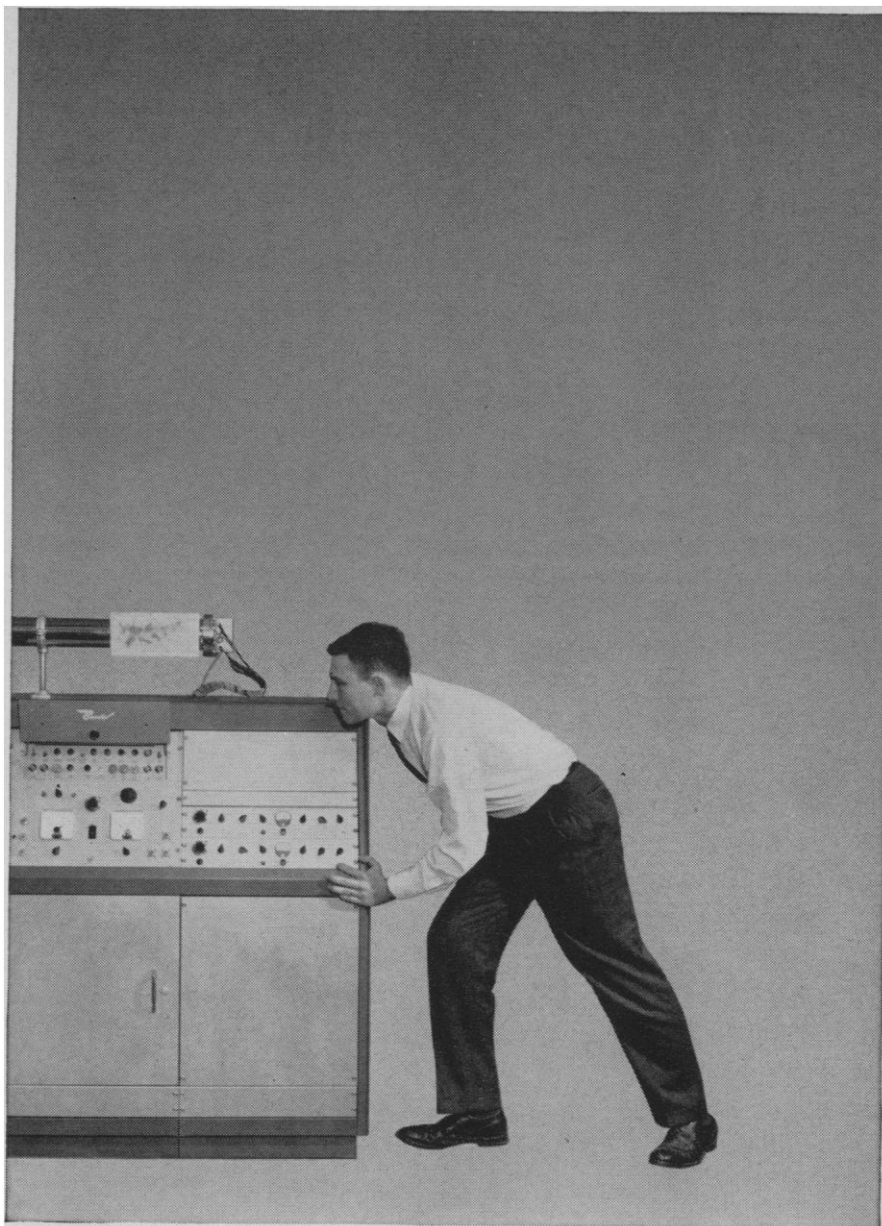
2-3. **Obstetrics and Gynecology**, seminar, Gainesville, Fla. (Mrs. D. Miller, Div. of Postgraduate Education, College of Medicine, Univ. of Florida, Gainesville)

2-3. **Industrial Applications of New Technology**, conf., Atlanta, Ga. (Director, Short Courses and Conferences, Georgia Inst. of Technology, Atlanta, Ga. 30332)

2-4. American Acad. of **Oral Pathology**, Bethesda, Md. (R. J. Gorlin, Univ. of Minnesota, Minneapolis)

2-4. Association of **Surgeons** of Great Britain and Ireland, annual, St. Andrews, Scotland (Secretariat, 47 Lincoln's Inn Fields, London, W.C.2, England)

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