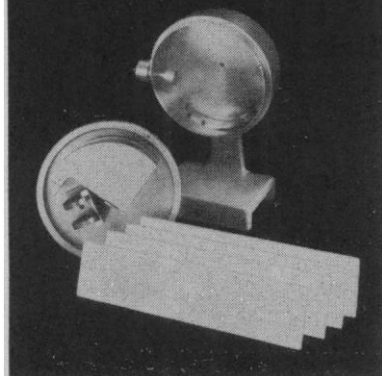


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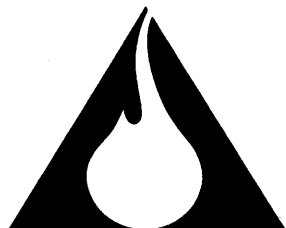


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and that they are enormous—several thousand light years across. He pictures their structure as resembling an onion, with several layers of skin. The outer skin is relatively thin, a cloud of high-energy atomic particles; the second skin is another thin shell of glowing, rarefied gas, which emits light predominantly at a few fixed frequencies. The inner core, much smaller, is thought of as a sort of hot superstar of perhaps 10^8 solar masses, with a temperature of over $10,000^\circ\text{C}$; its diameter may be as little as a light year.

Before the concept of a red-hot onion was served to the participants, they viewed the sky photographs presented by Allan Sandage (Mount Wilson and Palomar Observatories). The beauty and order of the pictures were reflected in the clarity and symmetry of Sandage's talk in which he gave the latest count (by now, doubtless, out of date) of 34 identified quasars. In the last few weeks before the conference, 15 new objects had been identified in a systematic search with the 48-inch (120-cm) Palomar Schmidt telescope. An enigmatic characteristic of these confusing objects is enormous variation in brightness of the quasars that Sandage had observed. The radio source known as 3C2 has varied in brightness by as much as a factor of 4 in the last 2 years—many times more than any other observed source. It is possible that 3C2 is the most distant object in the universe and is retreating from us at a speed very close to that of light.

Henry Palmer (Jodrell Bank Radio Observatory, England), who started the hunt for quasars nearly a decade ago, reported on the newly discovered sources. His observations had been made with the world's largest scientific instrument, a radio interferometer more than 100 miles (160 km) long.

H. Friedman (Naval Research Laboratory, Washington, D.C.) reported discovery of a number of new x-ray sources; one of them, Scorpio, may be only 30 light years away.

William Fowler (California Institute of Technology), in summing up the discussions of neutrinos, pointed out that our knowledge of the properties of neutrinos is minute. Attempts to increase such knowledge are being made in South Africa, near Johannesburg, where Frederick Reines (Case Institute of Technology) is installing a first crude neutrino telescope in a mine at a depth of 3450 m. The depth below

Earth's surface represents an attempt to screen the instrument from cosmic radiation; one cosmic neutrino candidate has already been detected. Davis (Brookhaven) reported on a project to bury a tank filled with 400,000 liters of cleaning fluid in a deep mine; there, it is hoped, a few of the chlorine atoms in the tank will be transformed into argon atoms by neutrino radiation. If this experiment is successful, it will provide direct proof that neutrinos come from the sun, which will be established as a nuclear-fusion device; it will also have produced an instrument capable of "looking into" the sun's central region, hitherto an impossibility.

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Forthcoming Events

April

6-9. Royal Aeronautical Soc., conf., Nottingham, England. (H. Umpleby, Institution of Mechanical Engineers, 1 Birdcage Walk, Westminster, London, S.W.1, England)

6-9. Automatic Control, conv., Nottingham, England. (H. Umpleby, Institution of Mechanical Engineers, 1 Birdcage Walk, Westminster, London, S.W.1, England)

7-9. American Assoc. for Cancer Research, 56th annual, Philadelphia, Pa. (AACR, 7701 Burholme Ave., Fox Chase, Philadelphia 19111)

7-9. The Chemical Soc., anniversary meetings, Glasgow, Scotland. (CS, Burlington House, London, W.1, England)

7-9. Nucleation Phenomena, intern. symp., Cleveland, Ohio. (A. G. Walton, Dept. of Chemistry, Case Inst. of Technology, University Circle, Cleveland 6)

7-9. Pesticides, U.S.-Japan Cooperative Science program, Honolulu, Hawaii. (Office of Intern. Science Activities, Natl. Science Foundation, Washington, D.C.)

7-9. Stress Analysis, conf., Bristol, England. (Administration Asst., Inst. of Physics and the Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

7-16. Instrumentation for Hydraulic Research, U.S.-Japan Cooperative Science Program seminar, Tokyo, Japan. (Office of Intern. Science Activities, Natl. Science Foundation, Washington, D.C.)

8-9. Histochemical Soc., 16th annual, Philadelphia, Pa. (S. S. Spicer, National Institute of Health, Bethesda, Md. 20014)

8-9. Microbiological Deterioration in the Tropics, symp., London, England. (Secretary, Soc. of Chemical Industry, 14 Belgrave Sq., London, S.W.1, England)

8-9. British Inst. of Radiology, annual congr., London, England. (BIR, 32 Welbeck St., London, W.1)

8-9. X-ray Analysis, Conf., Inst. of



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8-10. North Pacific Soc. of **Neurology and Psychiatry**, Portland, Ore. (W. W. Thompson, 3300 S.W. Dosch Rd., Portland)

8-10. American **Radium Soc.**, New Orleans, La. (J. L. Pool, 444 E. 68 St., New York 10021)

8-14. American Soc. for **Biological Chemists**, annual, Atlantic City, N.J. (K. Bloch, Harvard Univ., Cambridge 38, Mass.)

9-10. American Soc. for **Artificial Internal Organs**, Atlantic City, N.J. (B. K. Kusserow, Dept. of Pathology, Univ. of Vermont College of Medicine, Burlington)

9-10. American Assoc. of **University Professors**, Washington, D.C. (W. P. Fidler, AAUP, 1785 Massachusetts Ave., NW, Washington, D.C.)

9-11. Southwestern **Psychological Assoc.**, annual, Oklahoma City, Okla. (O. Parsons, Dept. of Psychiatry, Neurology, and Psychology, Oklahoma Medical Center, Oklahoma City)

9-13. Mediterranean Cooperation for **Solar Energy**, Istanbul, Turkey. (M. Perrot, c/o Faculte des Sciences, Pl. Victor Hugo, Marseilles, France)

9-14. Federation of American Societies for **Experimental Biology**, 46th annual, Atlantic City, N.J. (Mrs. H. B. Lemp, FASEB, 9650 Wisconsin Ave., Washington, D.C. 20014)

10. New Mexico Acad. of Sciences, Socorro. (K. S. Bergstresser, 739 42nd St., Los Alamos, N.M.)

10-12. **Aerospace Electronics**, natl. conf., Dayton, Ohio. (Inst. of Electrical and Electronics Engineers, Dayton Office, 1414 E. 3 St., Dayton)

10-14. American Soc. for **Experimental Pathology**, Atlantic City, N.J. (H. D. Moon, Univ. of California School of Medicine, San Francisco 94122)

10-14. American Inst. of **Nutrition**, annual, Atlantic City, N.J. (O. Mickelsen, Dept. of Foods and Nutrition, Michigan State Univ., East Lansing)

10-14. American **Physiological Soc.**, Atlantic City, N.J. (R. G. Daggs, 9650 Wisconsin Ave., Washington, D.C.)

10-16. American Assoc. of **Immunologists**, Atlantic City, N.J. (B. H. Waksman, Massachusetts General Hospital, Boston 14)

11-15. **Calcified Tissues**, 3rd European symp., Davos, Switzerland. (H. Fleisch, Laboratorium für Experimentelle Chirurgie, Schweizerisches Forschungsinstitut, Davos)

12-13. **Inorganic Single Crystals**, symp., London, England. (Asst. Secretary, Soc. of Chemical Industry, 14 Belgrave Sq., London, S.W.1)

12-13. **Seismological Soc. of America**, annual, St. Louis, Mo. (C. Kisslinger, Dept. of Geophysics and Geophysical Engineering, St. Louis Univ., 3621 Olive St., St. Louis 63108)

12-14. **Atomic Spectra and Radiation Processes**, conf., Oxford, England. (Administration Asst., Inst. of Physics and the Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

12-14. **Ballistocardiography and Cardio-**

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vascular Dynamics, 1st world congr., Amsterdam, Netherlands. (A. A. Knoop, Physiological Laboratory, Free Univ., Valeriusplein 11, Amsterdam)

12-15. American College Personnel Assoc., Minneapolis, Minn. (A. H. Hitchcock, 1605 New Hampshire Ave., NW, Washington, D.C. 20009)

13-14. Kinetics of Proton Transfer Processes, Faraday Soc., Univ. of Newcastle-upon-Tyne, England. (FS, 6 Gray's Inn Square, London, W.C.1, England)

13-14. Thermal Analysis, symp., London, England. (B. R. Currell, Dept. of Chemistry, Mathematics, Biology, and Geology, Northern Polytechnic, Holloway Rd., London, N.7)

13-15. Telemetering, natl. conf., Houston, Tex. (R. W. Towle, Advanced Technology Laboratories, 369 Winsman Ave., Mountain View, Calif.)

13-17. American Soc. of Parasitologists, 40th annual, Atlanta, Ga. (F. J. Kruidenier, Dept. of Zoology, Univ. of Illinois, Urbana)

13-17. Rehabilitation, Pan Pacific conf., Tokyo, Japan. (Intern. Soc. for Rehabilitation of the Disabled, 701 First Ave., New York 10017)

14. Programmed Instruction in Medical Education, symp., Newark, N.J. (A. Krosnick, Div. of Chronic Illness Control, New Jersey State Dept. of Health, Box 1540, Trenton 25)

14-16. Water Resources and Pollution Control, Raleigh, N.C. (C. M. Weiss, Box 899, Chapel Hill, N.C.)

15-16. Heat Transfer at Cryogenic Temperatures, Oklahoma State Univ., Stillwater. (J. D. Parker, Dept. of Mechanical Engineering, Oklahoma State Univ., Stillwater 74075)

15-16. Programming and Control, intern. conf., U.S. Air Force Academy, Colorado Springs, Colo. (O. J. Mancini, G. B. Dantzig Operations Research Center, Univ. of California, Berkeley)

15-17. American Ethnological Soc., Lexington, Ky. (N. F. S. Woodbury, Office of Anthropology, U.S. Natl. Museum, Washington, D.C.)

15-17. Southern Soc. for Philosophy and Psychology, Atlanta, Ga. (E. A. Alluisi, Psychology Dept., Univ. of Texas, Austin 78712)

16-17. Montana Acad. of Sciences, Montana State College, Bozeman. (L. H. Harvey, Dept. of Botany and Microbiology, Montana State Univ., Missoula)

16-18. Association of Southeastern Biologists, annual, Charlottesville, Va. (J. N. Dent, Room 270, Gilmer Hall, McCormick Rd., Charlottesville 22903)

18-22. Association of American Geographers, annual, Columbus, Ohio. (E. Taafee, Dept. of Geography, Ohio State Univ., Columbus)

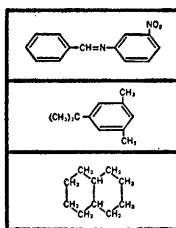
18-24. Tsunami Run-up, U.S.-Japan Cooperative Science Program mtg., Sapporo, Japan. (Office of Intern. Science Activities, Natl. Science Foundation, Washington, D.C.)

19-21. Nondestructive Evaluation of Aerospace and Weapons System Components and Materials (unclassified), San Antonio, Tex. (J. R. Barton, Southwest Research Inst., 8500 Culebra Rd., San Antonio 6)

19-21. Biomedical Sciences Instrumen-

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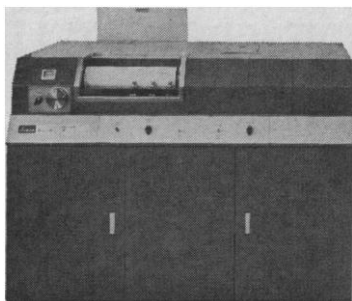
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19-21. Mechanics, Physics, and Chemistry of Solid Propellants, Purdue Univ., Lafayette, Ind. (A. C. Eringen, School of Aeronautics, Astronautics and Engineering Sciences, Purdue Univ., Lafayette)

19-22. Modern Trends in Activation Analysis, intern. conf., Texas A&M Univ., College Station. (R. E. Wainerdi, Texas A&M Univ., College Station)

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

19-22. Nuclear Magnetic Resonance, 2nd annual workshop, Washington, D.C. (A. J. Rosen, Dept. of Chemistry, Georgetown Univ., Washington, D.C.)

20-22. Frequency Control, 19th annual symp., Atlantic City, N.J. (Director, U.S. Army Electronics Laboratories, Headquarters, U.S. Army Electronics Command, Attn: AMSEL-RD-PF, Fort Monmouth, N.J. 07703)

20-22. Great Plains, symp., North Dakota State Univ., Fargo. (S. W. Russell, North Dakota State Univ., Fargo)

20-22. Physics of Solids at High Pressures, 1st intern. conf., Tucson, Ariz. (C. T. Tomizuka, Dept. of Physics, Univ. of Arizona, Tucson 85721)

20-22. Photochemical Aspects of Air Pollution, symp., Cincinnati, Ohio. (A. P. Altschuler, Taft Sanitary Engineering Center, 4676 Columbia Parkway, Cincinnati 45226)

20-22. System Theory, symp., Polytechnic Inst. of Brooklyn, Brooklyn, N.Y. (J. Fox, Polytechnic Inst. of Brooklyn, 333 Jay St., Brooklyn 1)

20-23. American Assoc. of Anatomists, annual, Miami, Fla. (R. T. Woodburne, Dept. of Anatomy, Univ. of Michigan, Ann Arbor 48104)

20-23. American Meteorological Soc., spring meeting, Washington, D.C. (K. C. Spengler, 45 Beacon St., Boston 8, Mass.)

20-23. U.S. Natl. Committee, Intern. Scientific Radio Union/Inst. of Electrical and Electronics Engineers, spring meeting, Washington, D.C. (A. T. Waterman, Stanford Electronics Laboratories, Stanford Univ., Stanford, Calif.)

21. Oral Cancer, 3rd annual symp., Poughkeepsie, N.Y. (M. A. Engelman, 1 East Academy St., Wappingers Falls, N.Y. 12590)

21-22. Mathematical Geodesy, symp., Turin, Italy. (A. Marussi, Univ. of Trieste, Trieste, Italy)

21-23. American Inst. of Chemists, 42nd annual, Richmond, Va. (R. E. Anderson, Albemarle Paper Manufacturing Co., Richmond 23217)

21-23. Cognitive Processes and Clinical Psychology, 3rd symp., Univ. of Colorado, Boulder. (R. Jessor, Dept. of Psychology, Univ. of Colorado, Boulder)

21-23. Combustion Inst., western states section, spring meeting, Hollywood, Calif. (A. S. Gordon, Forrester Research Center, Princeton Univ., Princeton, N.J.)

21-23. Institute of Environmental Sciences, 11th annual, Chicago, Ill. (IES, 34 Main St., Mount Prospect, Ill. 60057)

21-23. Engineering Aspects of Magneto-

hydrodynamics, 6th symp., Pittsburgh, Pa. (E. Reshotko, Div. of Electrical Engineering, Case Inst. of Technology, Cleveland, Ohio 44106)

21-23. Support for Manned Flight, conf., Dayton, Ohio. (G. L. Schwarz, Headquarters, AF Logistics Command (MCO), Wright-Patterson Air Force Base, Ohio)

21-23. Marine Sciences Instrumentation, 3rd natl. symp., Instrument Soc. of America, Univ. of Miami, Miami, Fla. (H. A. Cook, Airpax Electronics, Inc., P.O. Box 8488, Fort Lauderdale, Fla.)

21-23. Nonlinear Magnetics, 3rd intern. conf. (INTERMAG), Washington, D.C. (E. W. Pugh, I.B.M. Components Div., Dept. 231, Bldg. 703-2, Poughkeepsie, N.Y. 12602)

21-23. Ophthalmological Soc. of the United Kingdom, annual, London, England. (Joint Secretariat, 47 Lincoln's Inn Fields, London, W.C.2)

21-23. Optimization Techniques, symp., Pittsburgh, Pa. (Inst. of Electrical and Electronics Engineers, Box A, Lenox Hill Station, New York, N.Y.)

21-23. Pulse Radiolysis, symp., Manchester, England. (M. Ebert, Paterson Laboratories, Christie Hospital and Holt Radium Inst., Withington, Manchester 20, England)

21-24. Federation of European Biochemical Societies, Vienna, Austria. (The Secretariat, Alserstr. 4, Vienna 9)

21-24. British Paediatric Assoc., Scarborough, England. (E. W. Hart, Hospital for Sick Children, Great Ormond St., London, W.C.1, England)

21-2. Industrial Chemistry, 26th intern. congr., Paris, France. (Soc. of Industrial Chemistry, 28 rue St. Dominique, Paris 7)

22-23. Nondestructive Testing of Materials, intern. conf., Vienna, Austria. (Firma Gebr. Böhler & Co., A.G., Kapfenberg, Austria)

22-23. Chemistry of Polymerization Processes, symp., London, England. (W. R. Moore, Dept. of Chemical Technology, Bradford Inst. of Technology, Bradford 7, Yorkshire, England)

22-24. Eastern Psychological Assoc., 36th annual, Atlantic City, N.J. (M. A. Iverson, Queens College, Flushing, N.Y. 11367)

22-24. Role of the Solvent in Chemical Kinetics, E. A. Moelwyn-Hughes symp., Univ. of Arkansas, Fayetteville. (A. Fry, Dept. of Chemistry, Univ. of Arkansas, Fayetteville 72701)

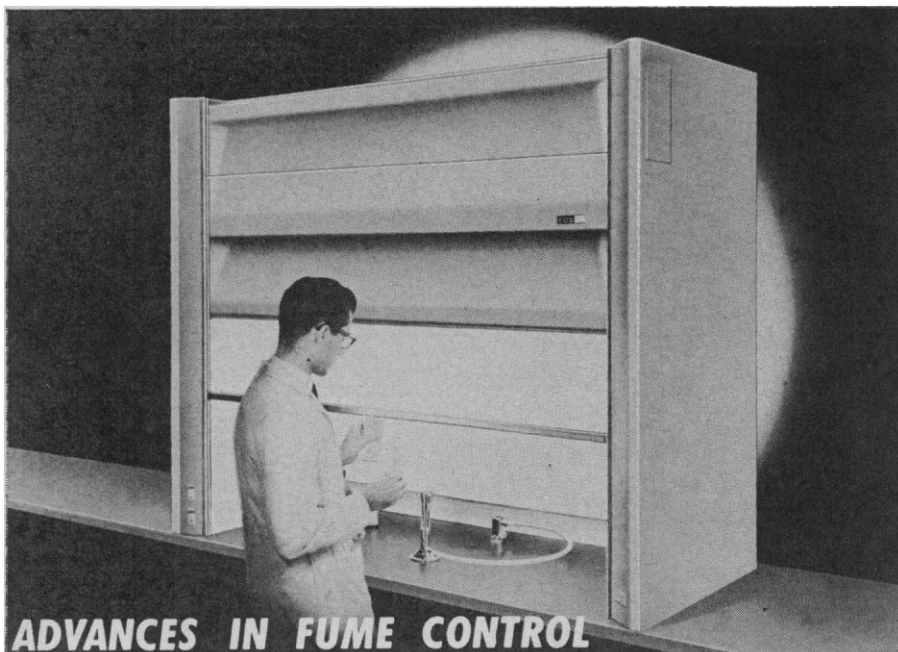
22-24. Wildflower Pilgrimage, 15th annual, Great Smoky Mountains Natl. Park. (E. E. C. Clebsch, Dept. of Botany, Univ. of Tennessee, Knoxville)

23-24. Georgia Acad. of Science, Oglethorpe Univ., Atlanta. (J. T. May, School of Forestry, Univ. of Georgia, Athens)

23-24. Information Retrieval, 2nd annual natl. colloquium, Univ. of Pennsylvania, Philadelphia. (Inst. for Scientific Information, 325 Chestnut St., Philadelphia 19106)

23-24. Iowa Acad. of Science, Univ. of Dubuque, Dubuque. (G. W. Peglar, Dept. of Mathematics, Iowa State Univ., Ames)

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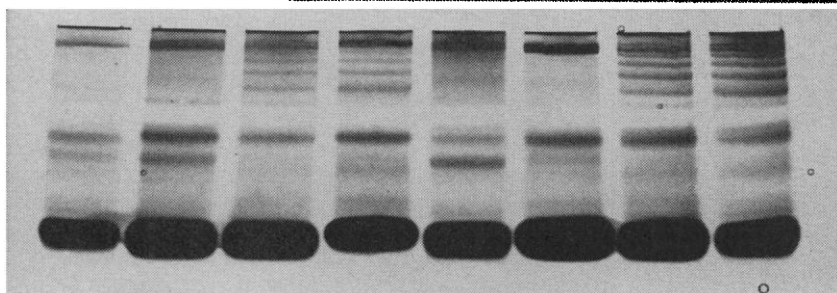
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23-24. **Ohio Acad. of Science**, annual, Ohio Univ., Athens. (J. H. Melvin, 505 King Ave., Columbus, Ohio 43201)

23-24. **Parasitism**, colloquium, Oregon State Univ., Corvallis. (J. E. McCauley, Dept. of Oceanography, Oregon State Univ., Corvallis 97331)

23-24. **Population Assoc. of America**, annual, Chicago, Ill. (A. J. Coale, PAA, Office of Population Research, 5 Ivy Lane, Princeton, N.J.)

23-24. **South Dakota Acad. of Science**, Black Hills State College, Spearfish. (T. Van Bruggen, Botany Dept., Univ. of South Dakota, Vermillion)

23-24. **West Virginia Acad. of Science**, Fairmont State College, Fairmont. (J. B. Hickman, 8 Mineral Industries Bldg., West Virginia Univ., Morgantown)

25-26. **Pi Gamma Mu**, natl. social science honor soc., St. Paul, Minn. (E. B. Urquhart, 1719 Ames St., Winfield, Kan.)

25-28. **American Oil Chemists Soc.**, Houston, Tex. (C. W. Hoerr, Durkee Foods, 2333 Logan Blvd., Chicago, Ill.)

25-28. **Southeastern Psychiatric Assoc.**, annual, Southern Pines, N.C. (H. Brackin, Jr., 1918 Church Ave., Nashville 3, Tenn.)

25-29. **American Assoc. of Cereal Chemists**, Kansas City, Mo. (E. J. Bass, Intern. Milling Co., Inc., 1423 S. 4th St., Minneapolis, Minn. 55404)

25-29. **American Soc. for Microbiology**, annual, Atlantic City, N.J. (R. W. Sarber, ASM, 115 Huron View Blvd., Ann Arbor, Mich.)

25-29. **International College of Surgeons**, North American Federation, Las Vegas, Nev. (Secretariat, 1516 Lake Shore Dr., Chicago, Ill. 60610)

26-27. **European Days of Chemical Engineering**, Paris, France. (Société de Chimie Industrielle, 28, rue St. Dominique, Paris 7)

26-27. **Electroanesthesia**, 2nd symp., Univ. of Tennessee, Knoxville. (C. E. Short, UT-AEC Agricultural Research Laboratory, 1299 Bethel Valley Rd., Oak Ridge, Tenn.)

26-27. **Environmental Health Problems**, 2nd AMA congr., Chicago, Ill. (Dept. of Environmental Health, AMA, 535 North Dearborn St., Chicago, Ill. 60610)

26-28. **Error in Digital Computation**, symp., Madison, Wis. (L. B. Rall, U.S. Army Mathematics Research Center, Univ. of Wisconsin, Madison 53706)

26-29. **Aerospace Medical Assoc.**, 36th annual, New York, N.Y. (Gen. J. M. Talbot, Headquarters USAF, AFMSPA, Washington, D.C. 20333)

26-29. **Mechanisms and Therapy of Cardiac Arrhythmias**, 14th Hahnemann symp., Philadelphia, Pa. (L. Dreifus, Dept. of Medicine, Hahnemann Medical College and Hospital, Philadelphia)

26-29. **Society of Economic Paleontologists and Mineralogists**, New Orleans, La. (D. M. Curtis, Shell Oil Co., Box 127, Metairie, La.)

26-29. **American Assoc. of Petroleum Geologists**, 39th annual, New Orleans, La. (G. Atwater, 424 Whitney Bldg., New Orleans)

26-29. **American Physical Soc.**, Washington, D.C. (K. K. Darrow, APS, Columbia Univ., New York 10027)

26-1. **Geodetic Uses of Satellites**, conf.,

Athens, Greece. (Intern. Organizations Staff, Bureau of Intern. Commerce, U.S. Dept. of Commerce, Washington, D.C.)

28-30. **Hypnosis and Psychosomatic Medicine**, intern. congr., Paris, France. (H. C. Harding, 2050 NW Lovejoy, Portland 9, Ore.)

28-30. National Soc. for **Prevention of Blindness**, Houston, Tex. (J. W. Ferree, 16 E. 40 St., New York 10016)

28-1. **Biometric Soc.**, Florida State Univ., Tallahassee. (E. L. LeClerg, 6804 40th Ave., University Park, Hyattsville, Md.)

28-1. **American College Health Assoc.**, Miami Beach, Fla. (R. E. Boynton, 5518 Merrick Dr., Coral Gables, Fla.)

29-30. **Space Navigation and Communications**, natl., Houston, Tex. (P. Schrock, Inst. of Navigation, 711 14th St. NW, Washington, D.C. 20005)

29-30. Association for **Symbolic Logic**, Chicago, Ill. (T. Hailperin, Dept. of Mathematics, Lehigh Univ., Bethlehem, Pa. 18015)

29-1. American Assoc. of **Endodontists**, Detroit, Mich. (E. C. Van Valey, 9 Rockefeller Plaza, New York 10020)

29-1. American Assoc. for **History of Medicine**, Philadelphia, Pa. (J. B. Blake, Natl. Library of Medicine, 9600 Wisconsin Ave., Bethesda, Md.)

29-1. American Acad. of **Neurology**, annual, Cleveland, Ohio. (AAN, 7100 France Ave. S., Minneapolis, Minn. 55410)

29-1. **Midwestern Psychological Assoc.**, 27th annual, Chicago, Ill. (F. A. Mote, Psychology Bldg., Madison, Wis. 53706)

29-1. American **Philosophical Assoc.**, western div., Chicago, Ill. (L. E. Hahn, Dept. of Philosophy, Southern Illinois Univ., Carbondale)

29-2. Protides of the **Biological Fluids**, 13th colloquium, Bruges, Belgium. (P.O.B. 71, Bruges 1)

29-2. Association of **Clinical Scientists**, New York, N.Y. (R. P. MacFate, ACS, 300 N. State St., Chicago, Ill. 60610)

29-2. **Pan American Medical Assoc.**, 40th annual congr., Grand Bahama Island. (PAMA, 745 Fifth Ave., New York 10022)

29-2. **Roentgen**, 46th German congr., Nuremberg, Germany (A. Jakob, c/o Strahleninstitut der Stadt, Krankenhaus, Flurstr. 17, 85 Nuremberg)

30-1. **Colorado-Wyoming Acad. of Science**, annual, Univ. of Denver, Denver, Colo. (C. Norton, Dept. of Botany and Plant Pathology, Colorado State Univ., Fort Collins)

30-1. **Indiana Acad. of Science**, Culver. (C. F. Dineen, St. Mary's College, Notre Dame, Ind. 46556)

30-1. **Nebraska Acad. of Sciences**, Lincoln. (C. B. Schultz, Morrill Hall 101, Univ. of Nebraska, 14th and U St., Lincoln 68508)

30-2. Society of **Biological Psychiatry**, New York, N.Y. (G. N. Thompson, 2010 Wilshire Blvd., Los Angeles, Calif.)

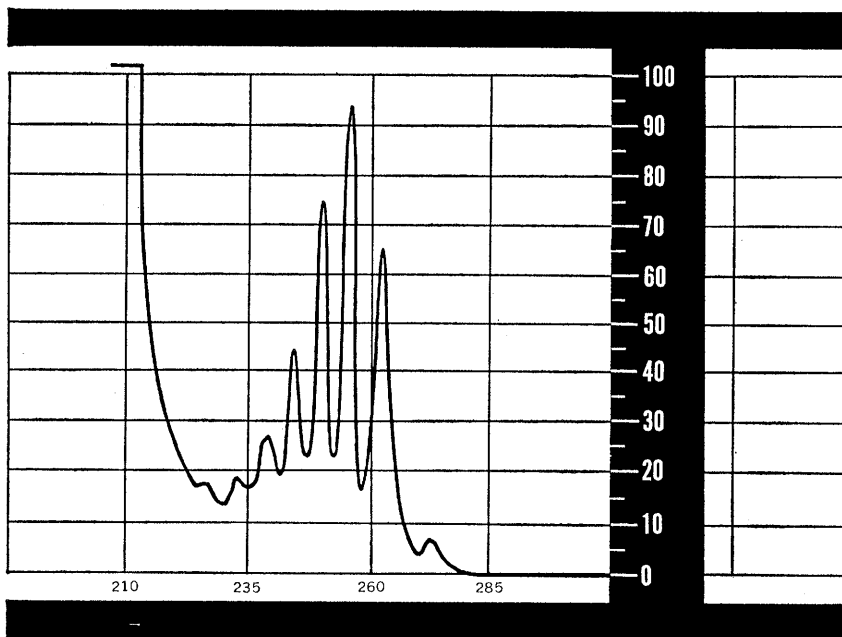
30-2. Academy of **Psychoanalysis**, annual, New York, N.Y. (A. H. Rifkin, 125 E. 65 St., New York 10021)

30-2. American **Psychosomatic Soc.**, annual, Philadelphia, Pa. (APS, 265 Nassau Rd., Roosevelt, N.Y. 11575)

30-3. American **Psychoanalytic Assoc.**, 52nd annual, New York, N.Y. (APA, 1 E. 57 St., New York 10022)

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