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**SOLID STATE SIMPLICITY** describes this combination of two BRS punched tape systems for data handling and equipment control. Designed with interfacing and controls adaptable to a variety of equipment, this package gives you versatility and computer-like efficiency for tape oriented systems.

# PUNCH IT

**DATA PUNCH SYSTEM TPS-3**—Can be utilized to generate standard one inch 5-, 7- and 8-level tape in any data format directly from experimental or control equipment. The BRS-designed Tape Control Unit includes a data buffer to store asynchronous inputs for simultaneous presentation of data to the tape punch. Fifty 8-level characters-per-second are recorded during synchronous operation, or up to 30 characters-per-second with asynchronous punch commands. Front panel switches are provided for manual system control.

Connected to the Control Unit is the punch mechanism, with self contained tape supply drawer and take up reel. Power requirements—12 VDC @ 750 ma and 28 VDC @ 1.2 amp.

Manual entry of tape characters is available with the KB-001 auxiliary keyboard. \$120



Tape Punch System TPS-3

\$1195

# READ IT

**PUNCHED TAPE READER SYSTEM TRS-3**—A flexible system for programming and control tasks, reading up to 100 characters-per-second, of eight-level paper tape. Its photo-electric read circuits accurately transform binary tape characters to normal and inverted outputs on eight pairs of parallel lines; front-panel lamps indicate the state of data being read. Capable of continuous or incremental tape feed by an external signal with sense switches to stop tape on blank code, skip code or both. Power requirements—117 VAC, 60 cps @ 1 amp.



Tape Reader System TRS-3

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**BRS electronics**

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is studied, geometricostatistical stereology is of no avail; serial sectioning is, at this time, the best known method of attack.

Another, extremely interesting approach to the study of three-dimensional structure of opaque objects is serial section cinematography. This process involves staining or etching the surface of the remaining block of a specimen, while the slices are discarded. The stained, exposed block surfaces are recorded on successive frames of a motion picture film. When projected, the film reveals the topological qualities of a specimen such as continuity, contiguity, connectivity, isolation, as well as the genus of a component of a specimen. Primarily, however, such films give very specific information on the arrangement of parts. Whenever a component has a shape other than that of a cylinder or pyramid oriented perpendicularly to the cutting plane, the film, when projected, gives the visual impression of change of shape or movement.

This chain of thought leads to "hyperstereology," the extrapolation from three- to four-dimensional space which might at a later time help in the clarification of certain cosmological phenomena.

The Congress was supported by a grant from the National Science Foundation. The complete program of the Congress with abstracts of all papers constitutes volume 6, No. 1, of *Stereologia*, the bulletin of the International Society for Stereology. The proceedings of the Congress, now in press, will be published by Springer-Verlag, New York and Heidelberg.

HANS ELIAS

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## Calendar of Events

### National Meetings

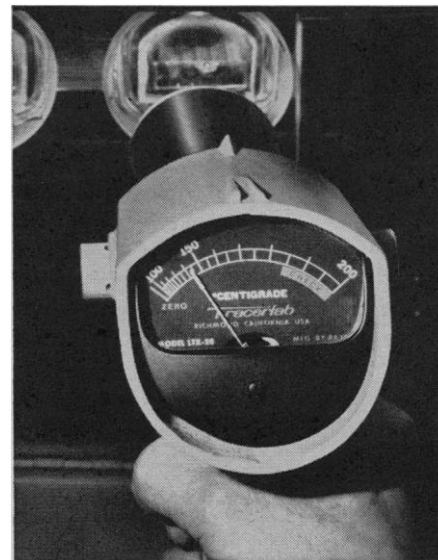
#### June

8-9. **Photographic Systems for Engineers**, seminar, Newton, Mass. (Soc. of Photographic Scientists and Engineers, 1330 Massachusetts Ave., NW, Washington, D.C. 20005)

8-9. **Post Irradiation Recovery Kinetics**, symp., Bethesda, Md. (M. F. Canning, Information Div., Technical Information and Services Dept., Armed Forces Radiobiology Research Inst., Defense Atomic Support Agency, Bethesda 20014)

8-10. **Fourth Pacific Northwest Plastics Workshop**, Spokane, Wash. (R. Raff, Re-

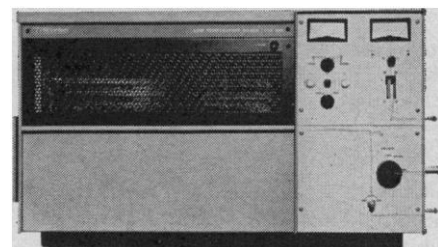
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SCIENCE, VOL. 156

search Div., College of Engineering, Washington State Univ., Pullman 99163)

11-14. **Apollo and Beyond**, American Astronautical Soc., Huntsville, Ala. (S. S. Hu, Northrop Space Labs., P.O. Box 1484, Huntsville)

11-15. **American Nuclear Soc.**, 12th annual, San Diego, Calif. (J. E. Wilkins, Jr., General Atomic, P.O. Box 608, San Diego 92112)

11-15. **Industrial Pharmaceutical Research**, 9th annual natl. conf., Land O' Lakes, Wis. (A. P. Lemberger, Extension Services in Pharmacy, 190 Pharmacy Bldg., Univ. of Wisconsin, Madison 53706)

11-16. **Air Pollution Control Assoc.**, 60th annual mtg., Cleveland, Ohio. (Seward Covert & Associates, 1059 Leader Bldg., Cleveland 44114)

11-16. **Medical Library Assoc.**, annual mtg., Miami, Fla. (The Association, 919 N. Michigan Ave., Chicago, Ill.)

12-14. **American Neurological Assoc.**, 92nd annual mtg., Atlantic City, N.J. (M. D. Yahr, The Association, 710 W. 168 St., New York 10032)

12-15. **Society for Industrial and Applied Mathematics**, Washington, D.C. (W. J. Jameson, Jr., Collins Radio Co., 120-09 Cedar Rapids, Iowa 52406)

12-16. **American Osteopathic Academy of Orthopedics**, 7th annual instructional course, Vienna, Austria. (P. H. Lewis, 1930 Chestnut St., St. Joseph, Mo. 64501)

12-16. **Technical and Industrial Communication**, 10th annual inst., Fort Collins, Colo. (Director, The Institute, Colorado State Univ., Fort Collins 80521)

13-14. **Electroexplosive Devices**, 5th symp., Philadelphia, Pa. (G. Cohn, Senior Staff Engineer, Franklin Inst. Research Lab., Philadelphia 19103)

13-15. **American Astronomical Soc.**, Yerkes Observatory, Williams Bay, Wis. (G. C. McVittie, Univ. of Illinois Observatory, Urbana 61803)

13-16. **Conjugate Point Symp.**, Boulder, Colo. (Aeronomy Lab. 540.03, Environmental Science Services Administration, Inst. for Telecommunication Sciences and Aeronomy, Boulder 80302)

13-16. **Vacuum Metallurgical Conf.**, 10th annual, New York, N.Y. (E. L. Foster, Materials Engineering Dept., Battelle Memorial Inst., 505 King Ave., Columbus, Ohio)

14-15. **Plastics for Tooling**, 9th seminar, Lafayette, Ind. (Soc. of Plastics Industry, 250 Park Ave., New York 10017)

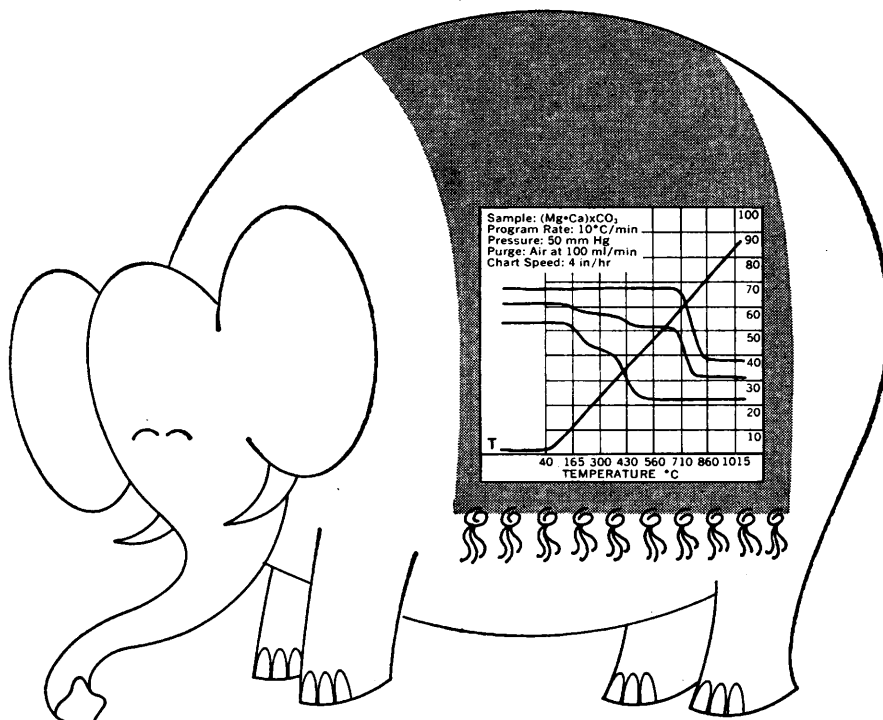
14-16. **Densitometry**, seminar, Chicago, Ill. (B. Kettinger, News Service Office, P.O. Box 3404, Rochester Inst. of Technology, Rochester, N.Y. 14614)

14-17. **Modern Computer Analysis of Complex Social Science Data Bases**, Council of Social Science Data Archives, annual mtg., Los Angeles, Calif. (W. A. Glaser, Bureau of Applied Social Research, 605 W. 115 St., New York 10025)

14-17. **Speech-Analyzing Aids for the Deaf**, conf., Washington, D.C. (J. M. Pickett, Hearing and Speech Center, Gallaudet College, Washington, D.C.)

15-16. **American Rheumatism Assoc.**, New York, N.Y. (Miss M. Walsh, The Association, 1212 Avenue of the Americas, New York)

15-16. **Soil, Water and Suburbia**, Dept.

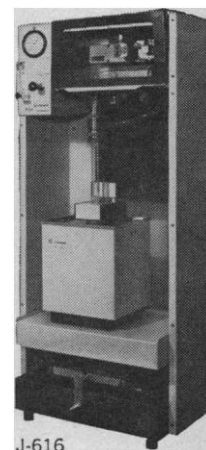


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15-17. American Assoc. of **Physics Teachers**, summer mtg., Canton, N.Y. (A. B. Arons, Physics Dept., Amherst College, Amherst, Mass.)

15-17. Symposium on **High Energy Radiation Therapy Dosimetry**, American Assoc. of Physicists in Medicine, New York, N.Y. (L. H. Lanzl, Dept. of Radiology, Univ. of Chicago, 950 E. 59 St., Chicago, Ill. 60637)

15-18. American **Therapeutic Soc.**, mtg., Atlantic City, N.J. (A. F. Kreglow, 1801 Eye St., NW, Washington, D.C.)

15-19. American College of **Chest Physicians**, Atlantic City, N.J. (M. Kornfeld, 112 E. Chestnut St., Chicago, Ill. 60611)

16-17. American **Geriatrics Soc.**, Atlantic City, N.J. (E. Henderson, Executive Director, The Society, 10 Columbus Circle, Room 1495, New York 10019)

17. Academy of **Tuberculosis Physicians**, Atlantic City, N.J. (G. P. Bailey, 1295 Clermont, Denver, Colo.)

17-18. Academy of **Psychosomatic Medicine**, 4th symp. on anxiety and depression, Atlantic City, N.J. (E. Dunlop, 150 Emory St., Attleboro, Mass. 02703)

17-18. American **Diabetes Assoc.**, Atlantic City, N.J. (J. R. Connelly, The Association, 18 E. 48 St., New York 10017)

17-18. Society for **Surgery of the Alimentary Tract**, Atlantic City, N.J. (J. Van Prohaska, The Society, 950 E. 59 St., Chicago, Ill. 60637)

17-19. **Reliability and Maintainability**, 6th annual conf., Cocoa Beach, Fla. (Meetings Dept., American Inst. of Aeronautics and Astronautics, 1290 Sixth Ave., New York 10019)

18-21. **Botanical Soc. of America**, Northeastern Section, summer field mtg., Tuxedo, N.Y. (R. K. Zuck, Dept. of Botany, Drew Univ., Madison, N.J.)

18-22. American **Medical Assoc.**, 116th annual conv., Atlantic City, N.J. (The Association, 535 N. Dearborn St., Chicago, Ill. 60610)

18-22. **Health Physics Soc.**, 12th annual mtg., Washington, D.C. (J. C. Villforth, Radiological Health Lab., 1901 Chapman Blvd., Rockville, Md.)

18-22. Society for **Investigative Dermatology**, Atlantic City, N.J. (G. W. Hambrick, Jr., The Society, Johns Hopkins Hospital, 601 N. Broadway, Baltimore, Md. 21205)

18-23. American Soc. of **Ichthyologists and Herpetologists**, annual mtg., San Francisco, Calif. (W. I. Follett, California Acad. of Sciences, Golden Gate Park, San Francisco 94118)

18-30. **Electron Microscopy**, workshop, Northeastern Univ., Boston, Mass. (C. Youse, Continuing Education, Northeastern Univ., 360 Huntington Ave., Boston)

19. **Scombroid Phylogeny: Ideas and Approaches**, symp. of American Soc. of Ichthyologists and Herpetologists, San Francisco, Calif. (B. J. Rothschild, Tuna Ecology Program, Bureau of Commercial Fisheries, P.O. Box 3830, Honolulu, Hawaii 96812)

19-21. **Automatic Data Processing Systems in Local Government**, 3rd annual

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conf., New York, N.Y. (H. Sellin, School of Continuing Education, New York Univ., New York 10003)

19-21. **Colloid**, 41st natl. symp., Buffalo, N.Y. (P. Becher, Chemical Research Dept., Atlas Chemical Industries, Wilmington, Del. 19899)

19-21. **Heat Transfer and Fluid Mechanics** Inst., La Jolla, Calif. (D. B. Olfe, Dept. of Aerospace and Mechanical Engineering Sciences, Univ. of California at San Diego, La Jolla)

19-21. **Microelectronics**, symp., St. Louis, Mo. (R. Pellin, Inorganic Chemicals Div., Monsanto Co., 800 N. Lindbergh Blvd., St. Louis 63166)

19-22. American Soc. for **Engineering Education**, 75th annual mtg., East Lansing, Mich. (L. Winner, 152 W. 42 St., New York 10036)

19-22. Western Soc. of **Soil Science**, annual mtg., Los Angeles, Calif. (J. L. Young, 100 Agricultural Hall, Oregon State Univ., Corvallis)

19-23. **Automating State and Local Records Making and Records Keeping**, American Univ., Washington, D.C. (P. W. Howerton, Director, Center for Technology and Administration Inst., 2000 G St., NW, Washington 20010)

21-23. **Modern Titrimetry**, 20th annual summer symp. on analytical chemistry, Claremont, Calif. (A. L. Beilby, Dept. of Chemistry, Pomona College, Claremont 91713)

21-25. Society of **Women Engineers**, 17th annual conv., Washington, D.C. (Mrs. J. R. Fisher, 12501 Connecticut Ave., Silver Spring, Md. 20906)

21-30. **Combustion-Generated Air Pollution**, mtg., Berkeley, Calif. (Engineering Extension, 2223 Fulton St., Berkeley 94720)

22-23. **Animal Reproduction**, 8th symp., Urbana, Ill. (Short Courses and Conferences, 116 Illini Hall, Champaign, Ill. 61820)

22-24. American Soc. of **Enologists**, annual mtg., Santa Barbara, Calif. (The Society, Box 411, Davis, Calif.)

22-25. American Assoc. of **Bioanalysts**, mtg., Detroit, Mich. (D. Birenbaum, The Association, 805 Ambassador Bldg., St. Louis, Mo. 63101)

25-27. **Mountain Meteorology**, symp., Fort Collins, Colo. (J. L. Rasmussen, Dept. of Atmospheric Science, Colorado State Univ., Fort Collins 80521)

25-28. American Soc. of **Agricultural Engineers**, annual mtg., Saskatoon, Sask., Canada. (O. L. Symes, Dept. of Agricultural Engineering, Univ. of Saskatchewan, Saskatoon)

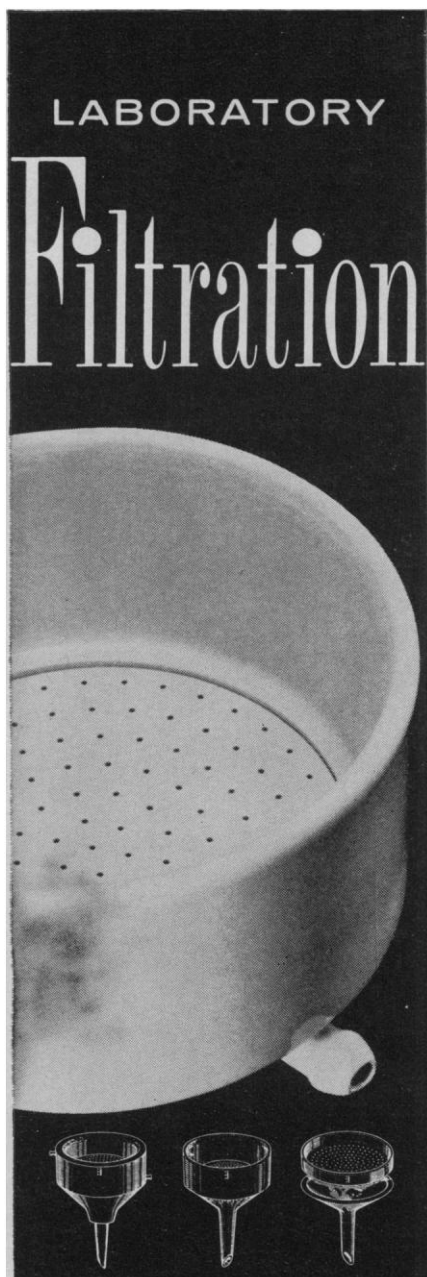
25-28. American **Dairy Science** Assoc., Ithaca, N.Y. (C. Cruse, The Association, 903 Fairview Ave., Urbana, Ill. 61801)

25-28. American **Leather Chemists** Assoc., Lake Placid, N.Y. (W. T. Roddy, Executive Secretary, The Association, Univ. of Cincinnati, Cincinnati, Ohio 45221)

25-30. American Soc. for **Testing and Materials**, 70th annual mtg., Boston, Mass. (H. H. Hamilton, Public Relations, The Society, 1916 Race St., Philadelphia, Pa. 19103)

26-27. American Soc. of **Pharmacognosy**, annual mtg., Ann Arbor, Mich. (A. G. Paul, College of Pharmacy, Univ. of Michigan, Ann Arbor)





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26-28. **Computer Workshop**, Columbia Univ., New York, N.Y. (Workshop Director, College of Pharmaceutical Sciences, Columbia Univ., 115 W. 68 St., New York 10023)

26-30. **American Schools for the Deaf**, conf. West Hartford, Conn. (E. W. Tillinghast, Arizona State School of Deaf and Blind, P.O. Box 5545, Tucson 85703)

26-30. **Computers in Chemistry**, conf., Univ. of California, San Diego. (P. James, Chancellor Office, Univ. of California at San Diego, La Jolla)

26-30. **Workshop on Graduate Training in Scientific Writing**, Rockefeller Univ., New York, N.Y. (F. P. Woodford, Rockefeller Univ., New York 10021)

26-8. **Immunology**, summer course. Lake Forest, Ill. (S. Dray, Univ. of Illinois at Medical Center, P.O. Box 6998, Chicago)

27-29. **Western Soc. of Crop Science**, University Park, N.M. (B. A. Melton, Jr., New Mexico State Univ., University Park 88001)

28-30. **American Scientific Glassblowers Soc.**, 12th annual symp., Atlanta, Ga. (R. W. Poole, 100 Cedar Lane, Oak Ridge, Tenn. 37832)

28-30. **Joint Automatic Control Conf.**, 8th annual mtg., Philadelphia, Pa. (L. Winner, 152 W. 42 St., New York 10036)

28-30. **Society of Protozoologists**, Toronto, Ont., Canada. (R. W. Hull, Dept. of Biological Sciences, Florida State Univ., Tallahassee, 32306)

29-1. **Navigation in the Last Third of the 20th Century: Where Do We Stand; What Needs to be Done**, Inst. of Navigation, 23rd annual mtg., Washington, D.C. (The Institute, 711 14th St., NW, Suite 912, Washington 20005)

#### International and Foreign Meetings

##### June

14-15. **Light and Vision**, intern. symp., Columbus, Ohio. (G. A. Fry, Ohio State Univ., Columbus 43210)

14-16. **Systematic Biology**, intern. conf., Ann Arbor, Mich. (A. G. Kluge, The Conference, Dept. of Zoology, Univ. of Michigan, Ann Arbor 48104)

14-17. **Canadian Psychiatric Assoc.**, annual mtg., Quebec City, P.Q. (W. A. Blair, 225 Lisgar St., Ottawa, Ont.)

14-17. **Mechanized Information Storage, Retrieval and Dissemination**, conf., Rome, Italy. (British Computer Soc., 23 Dorset Sq., London, N.W.1, England)

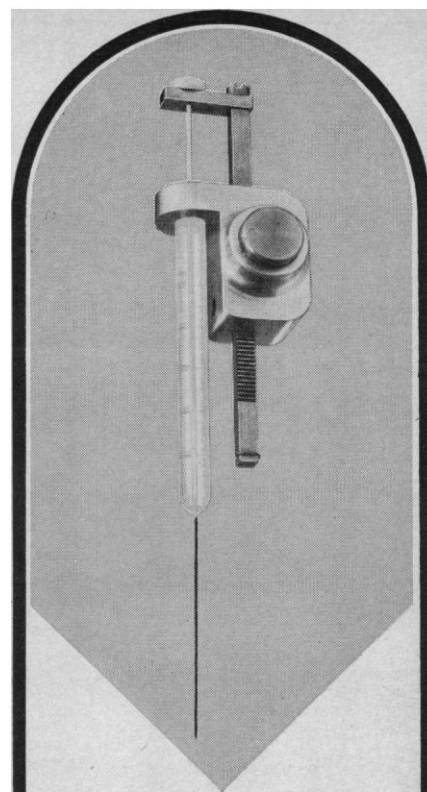
16-18. **Society of Obstetricians and Gynecologists of Canada**, annual mtg., Murray Bay, P.Q. (J. L. Harkins, 537 Medical Arts Bldg., Toronto 5, Ont.)

18-21. **Canadian Ophthalmological Soc.**, 30th annual mtg., Ottawa, Ont. (Office of Secretary, 1948 Yonge St., Suite 902, Toronto 7, Ont.)

18-23. **Canadian Soc. of Laboratory Technologists**, Quebec City, P.Q. (The Society, 99 Wentworth St. S., Hamilton, Ont.)

18-23. **Kinetics of Reactions in Ionic Systems**, intern. symp., Alfred, N.Y. (T. J. Gray, College of Ceramics, State Univ. of New York, Alfred 14802)

18-24. **Oral Education of the Deaf**, intern. conf., Northampton, Mass. and New York, N.Y. (G. T. Pratt, Clark



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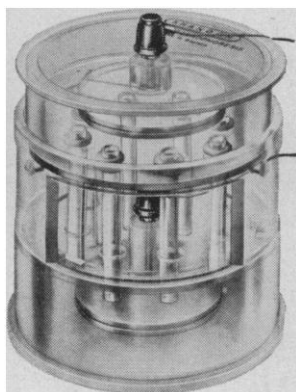
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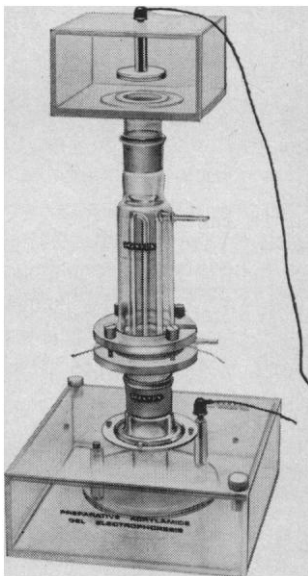
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- 18-30. **Algae, Man and the Environment**, intern. symp., Syracuse, N.Y. (D. F. Jackson, Dept. of Civil Engineering, Syracuse Univ., Syracuse 13210)
- 19-21. **Federation of European Biochemical Societies**, 4th mtg., Oslo, Norway. (W. J. Whelan, Dept. of Biochemistry, Royal Free Hospital School of Medicine, Univ. of London, 8 Hunter St., London, W.C.1)
- 19-23. **Electronics**, 14th intern. scientific congr., Rome, Italy. (Rassegna Internazionale Elettronica Nucleare e Telera-diocinematografica, Via Crescenzo 9, Rome)
- 19-23. **Spectroscopy**, 13th intern. colloquium, Ottawa, Ont., Canada. (Secretary, The Colloquium, Natl. Research Council, Ottawa 7)
- 19-28. **International Commission on Illumination**, Washington, D.C. (L. E. Barrow, Secretary, USNC, c/o National Bureau of Standards, Washington, D.C.)
- 20-22. **Design Engineering**, conf. and exhibition, Melton Mowbray, England. (Conf. Organizer, Production Engineering Research Assoc., Melton Mowbray)
- 20-22. **Growth of the Nervous System**, symp., London, England. (Ciba Foundation, 41 Portland Pl., London)
- 20-23. **British Assoc. of Dermatology**, London, England. (S. Gold, 149 Harley St., London, W.1)
- 20-23. **International Data Processing**, conf. and business exhibition, Boston, Mass. (Data Processing Management Assoc., 524 Busse Hwy., Park Ridge, Ill. 60068)
- 20-23. **Pathology and Microbiology**, 15th Scandinavian congr., Copenhagen, Denmark. (J. C. Siim, Statens Serum-institutet, Amager Boul. 80, Copenhagen)
- 21-25. **Town Planning** Inst. of Canada, annual mtg., Montreal, P.Q. (The Institute, Board of Trade Bldg., 11 Adelaide St. W., Toronto 1, Ont.)
- 21-29. **ACHEMA** 1967, 15th chemical engineering congr. and exhibition, Frankfurt-am-Main, West Germany. (Deutsche Gesellschaft für chemisches Apparatewesen, Postfach 7746, 6000 Frankfurt/Main, 7)
- 21-1. **International Plastics** Exhibition and Convention, London, England. (British Plastics, Interplas 67, Dorset House, Stamford St., London, S.E.1)
- 22-25. **Urology**, 32nd Belgian Congr., Liège, Belgium. (L. Timmermans, Hopital de Baviere, Clinique Urologique, 66, boulevard de la Constitution, Liège)
- 25-2. **Application of Mathematics in Engineering**, 4th intern. congr., Weimar, East Germany. (H. Matzke, Inst. of Mathematics and Scientific Computing Center, Weimar College of Architecture and Building, Karl Marx Platz, 2 Weimar)
- 25-2. **Chemotherapy**, 5th intern. congr., Vienna, Austria. (Sekretariat, Wiener Medizinische Akademie, Alser Strasse 4, 1090 Wien, Austria)
- 26-30. **Carbonium Ions**, 1st intern. symp. on physical organic chemistry, Athens, Greece. (The Symposium, Dept. of Chemistry, Michigan State Univ., East Lansing 48823; or G. Gregoriou, Nuclear Research Center "Democritos," Aghia Paraskevi, Athens, Greece)