

Forthcoming Events

July

18-24. **Dental**, 2nd intern. congr., Rio de Janeiro, Brazil. (P. F. Reis Filho, Associacao Brasileira de Odontologia, Rua da Baia 570, 5.º Andar, C. Postal 2357, Minas Gerais, Brazil)

18-24. **International Ophthalmic-Optical Congr.**, Dublin, Ireland. [E. Pemberton, Assoc. of Ophthalmic Opticians (Ireland), 11 Harrington St., Dublin]

19-21. **Surgery of the Hand**, 1st intern. congr., Rio de Janeiro, Brazil. (Sociedade Brasileira de Mão, Rio de Janeiro)

19-21. **Swine in Biomedical Research**, intern. symp., Richland, Wash. (L. K. Bustad, Biology Dept., Battelle-Northwest, P.O. Box 999, Richland 99352)

19-22. **Association of Food and Drug Officials of the U.S.**, 69th annual, New York, N.Y. (The Association, P.O. Box 9095, Austin, Tex.)

19-22. **Space**, 5th European symp., Munich, Germany. (Executive Secretary, British Interplanetary Soc., 12, Bessborough Gardens, London, S.W.1, England)

19-23. **Study of Nuclear Structure with Neutrons**, intern. conf., Antwerp, Belgium. (M. Neve de Mevergnies, Neutron Physics Dept., CEN-CSK, Mol, Belgium)

19-23. **Society for Analytical Chemistry**, conf., Nottingham, England. (C. A. Johnson, 14 Belgrave Sq., London, S.W.1, England)

20-23. **American Malacological Union**, Wagner College, New York, N.Y. (J. J. Parodiz, Carnegie Museum, Pittsburgh, Pa.)

21-31. **Mental Health**, 5th Caribbean conf., Fort-de-France, Martinique, French West Indies. (Caribbean Federation for Mental Health, Mme. Charles Saint-Cyr, Ravine Vilaine, Fort-de-France)

22-24. **International Assoc. for Dental Research**, 43rd general meeting, Toronto, Ont., Canada. (G. H. Rovelstad, U.S. Navy Dental School, Natl. Naval Medical Center, Bethesda, Md.)

22-26. **Rorschach and Projective Methods**, 6th intern. congr., Paris, France. (A. Morali-Daninos, 7 avenue Trudaine, Paris 9e)

22-27. **Thermodynamics of Nuclear Materials and Atomic Transport in Solids**, Vienna, Austria. (C. E. Holley, Jr., Div. of Research and Laboratories, Intern. Atomic Energy Agency, Kärltnerring 11, Vienna 1)

24-4 Sept. **Organism-Sediment Interrelationships**, NSF seminar, Bermuda Biological Station. (K. E. Chave, Marine Science Center, Lehigh Univ., Bethlehem, Pa. 18015)

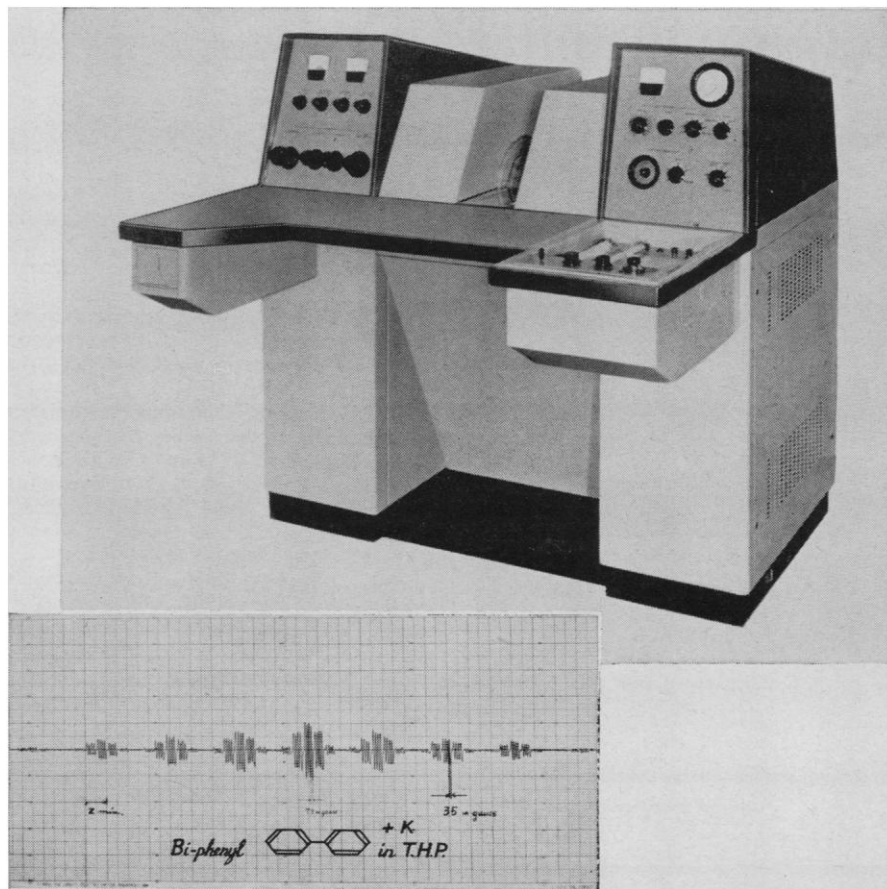
25-28. **American Assoc. of Dental Schools**, Toronto, Canada. (C. V. Rault, Georgetown Univ., Washington, D.C.)

25-29. **Pacific Dermatologic Assoc.**, Portland, Ore. (G. MacDonald, 4294 Orange St., Riverside, Calif.)

25-30. **Neurochemical**, intern. conf., Oxford, England. (J. N. Cummings, Dept. of Chemical Pathology, Natl. Hospital, Queen Sq., London, W.C.1, England)

25-30. **International Psycho-Analytical Assoc.**, 24th congr., Amsterdam, Nether-

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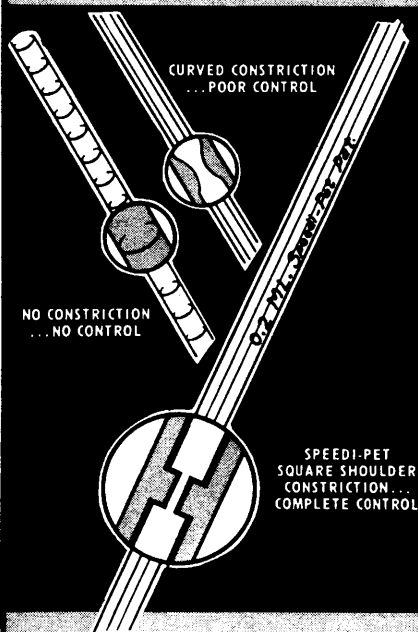
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lands. (R. P. McKnight, Austin Riggs Center, Stockbridge, Mass.)

26-29. American Inst. of **Aeronautics and Astronautics**, 2nd annual, San Francisco, Calif. (D. L. Raymond, 1290 Sixth Ave., New York 10019)

26-30. Interpretation and Therapy of **Cardiac Arrhythmias**, conf., Hahnemann Medical College and Hospital, Philadelphia 2, Pa. (L. S. Dreifus, Dept. of Medicine, Hahnemann Medical College and Hospital, 230 North Broad St., Philadelphia)

27-29. **Positron Annihilation**, conf., Wayne State Univ., Detroit, Mich. (A. T. Stewart, Physics Dept., Univ. of North Carolina, Chapel Hill)

27-29. **Research Program Effectiveness**, Washington, D.C. (Secretary, Research Conf. Committee, Room 808, Old Post Office Bldg., 12th St. and Pennsylvania Ave., NW, Washington, D.C. 20368)

28-30. **Library Science**, symp., Syracuse Univ., Syracuse, N.Y. (D. Bergen, School of Library Science, Syracuse Univ., Syracuse 13210)

28-30. **Reactor Operating Experience**, Jackson Lake Lodge, Wyo. (F. Schroeder, Phillips Petroleum, Idaho Falls, Idaho)

28-30. **Reliability and Maintainability**, 4th annual conf., Los Angeles, Calif. (J. de S. Coutinho, 32 Dartmouth St., Garden City, N.Y.)

28-31. **Spanish Biochemists**, 3rd meeting, Oviedo, Spain. (J. R. Villanueva, Centro de Investigaciones Biológicas, Velázquez 138, Madrid 6, Spain)

29-2. **Microcalorimetry**, intern. symp., Marseille, France. [E. Calvert, Institut de Microcalorimétrie et de Thermogénèse, 26, rue du 1414 RIA (3^e), Marseille]

29-5. **Protozoology**, 2nd intern. conf., London, England. (R. S. Bray, London School of Hygiene and Tropical Medicine, Keppel St., London, W.C.1)

30-31. **Animal Reproduction**, 7th biennial symp., Michigan State Univ., East Lansing. (W. Hansel, Dept. of Animal Husbandry, Cornell Univ., Ithaca, N.Y.)

31-7. **Universala Medicina Esperanto-Asocio**, meeting, during the 50th intern. esperanto congr., Tokyo, Japan. (H. Shinoda, Kasumicho, Yamagata, Japan)

August

1-5. American Soc. of **Animal Science**, Michigan State Univ., East Lansing. (J. E. Oldfield, Dept. of Animal Science, Oregon State Univ., Corvallis)

1-8. **Chemistry**, 9th Latin American congr., San Juan, P.R. (Secretary, 9th Latin American Chemical Congr., Box 2647, Rio Piedras, P.R.)

2-4. Society for **Cryobiology**, 2nd annual, Madison, Wis. (G. Rapatz, American Foundation of Biological Research, RFD 1, Madison 53716)

2-5. **Comparative Endocrinologists**, 3rd European conf., Copenhagen, Denmark. (C. Barker-Jørgensen, Universitets Zoofysiologiske Laboratorium Juliane Maries Vej 32, Copenhagen Ø)

2-6. **High Pressure**, intern. conf., Saône et Loire, France. (B. Vodar, Centre National de la Recherche Scientifique, B.P. 30, Bellevue, Seine et Oise, France)

2-6. **Instrumentation Science**, 2nd research conf., Instrument Soc. of America,

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Geneva, N.Y. (K. B. Schnelle, Jr., ISA, 539 William Penn Pl., Pittsburgh, Pa.)

3-7. **Acta Endocrinologica**, 5th congr., Hamburg, Germany. (A. Jores, 2 Medizinische Klinik, Eppendorfer Krankenhaus, Hamburg 20)

3-7. **Poultry Science Assoc.**, Univ. of Georgia, Athens. (C. B. Ryan, Texas A&M Univ., College Station 77843)

4-6. **Space and Ballistic Missile Technology**, 10th symp., U.S. Naval Training Center, San Diego, Calif. (C. T. Morrow, Aerospace Corp., Box 95085, Los Angeles, Calif. 90045)

4-7. **Genetics**, G. Mendel memorial symp., Brno, Czechoslovakia. (M. Sosna, G. Mendel Memorial Symp., Na cvicisti 2, Prague 6, Czechoslovakia)

5-12. **EEG and Neurophysiology**, 6th intern. congr., Vienna, Austria. (K. Pateisky, Wiener Medizinische Akademie, Alserstr. 4, Vienna 9)

8-11. **Heat Transfer**, 8th natl. conf., Los Angeles, Calif. (K. O. Beatti, Jr., Dept. of Chemical Engineering, North Carolina State College, Raleigh)

8-14. **Anatomists**, 8th intern. conf., Wiesbaden, Germany. (M. Watzka, Anatomisches Institut der Universität, Mainz, West Germany)

8-27. **Fracture Mechanics**, workshop, Denver Research Inst., Denver, Colo. (D. L. Wells, University Technology Corp., P.O. Box 7, Dayton, Ohio 45449)

9-11. **Mutation Process**, symp., Prague, Czechoslovakia. (M. Sosna, Na cvicisti 2, Prague 6)

9-13. **Meteor Orbits and Dust**, intern. symp. (invitation only), Cambridge, Mass. (G. S. Hawkins, Smithsonian Astrophysical Observatory, 60 Garden St., Cambridge 02138)

9-15. **Nordic Entomology Congr.**, Oslo, Norway. (Norwegian Natl. Travel Office, 290 Madison Ave., New York 10017)

9-20. **Electromagnetic Measurements and Standards**, Natl. Bureau of Standards, Boulder, Colo. (Bureau of Continuation Education, University Memorial Center, Univ. of Colorado, Boulder)

10-20. **Theory of Groups**, intern. conf., Intern. Mathematical Union, Canberra, Australia. (L. G. Kovacs, Dept. of Mathematics, Australian Natl. Univ. Inst. of Advanced Studies, Box 4, G.P.O., Canberra)

11-13. **Calorimetry**, 20th conf., Ames, Iowa. (R. Hultgren, Univ. of California, Berkeley)

11-15. **European Malacological Union**, 2nd congr., Copenhagen, Denmark. (G. Høpner Peterson, c/o Zoologisk Museum, 5 Afdeling, Universitetsparken 15, Copenhagen)

12-21. **Veterinary Education**, 2nd intern., Copenhagen, Denmark. (Inter. Agency Liaison Branch, Office of the Director General, Food and Agriculture Organization, Via delle Terme di Caracalla, Rome, Italy)

14-20. **Australian Medical Assoc.**, 2nd medical congr., Perth, Western Australia. (O. R. Corr, 8 King's Park Rd., West Perth, Western Australia)

14-20. **Molecular Spectroscopy**, 8th European congr., Copenhagen, Denmark. (The Congress, Universitetsparken 5, København Ø, Denmark)

14-6. **Digital Computers** for College Teachers of Science, Mathematics, and Engineering, Univ. of Southwestern Lou-

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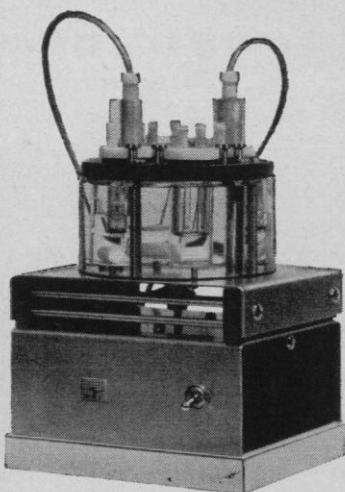
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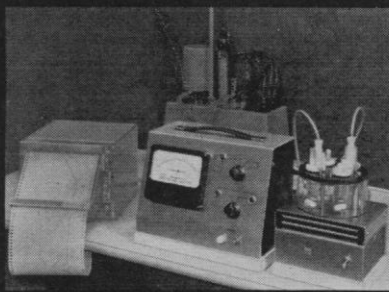
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14-19 Sept. International Assoc. for Quaternary Research, 7th congr., Boulder and Denver, Colo. Field conf., 14-29 Aug. and 5-19 Sept.; general assembly, 30 Aug.-5 Sept. (G. M. Richmond, Room 2462, Bldg. 25, Denver Federal Center, Denver 80225)

15-20. American Inst. of Biological Sciences, Urbana, Ill. (AIBS, 3900 Wisconsin Ave., NW, Washington, D.C. 20016)

The following societies will meet in conjunction with the AIBS. Unless otherwise indicated, the local chairmen are at the University of Illinois, Urbana.

American Bryological Soc. (G. N. Jones, Dept. of Botany)

American Fern Soc. (G. N. Jones, Dept. of Botany)

American Fisheries Soc. (G. Bennett, Aquatic Biology Section)

American Genetic Assoc. (S. Price, Room 210 S. Bldg., Plant Industry Station, Beltsville, Md.)

American Microscopical Soc. (L. J. Thomas, Dept. of Zoology)

American Soc. for Horticultural Science. (C. J. Birkeland, Dept. of Horticulture)

American Soc. of Limnology and Oceanography. (W. Larrimore, Illinois Natural History Survey, Urbana)

American Soc. of Plant Physiologists. (J. B. Hanson, Dept. of Agronomy)

American Soc. of Plant Taxonomists. (W. Payne, Dept. of Botany)

American Soc. of Zoologists. (L. Ingle, Dept. of Zoology)

Animal Behavior Soc. (G. P. Waldbauer, Dept. of Entomology)

Botanical Soc. of America. (D. J. Paolillo, Dept. of Botany, 302 Natural History Bldg.)

Ecological Soc. of America. (L. C. Bliss, Dept. of Botany)

Mycological Soc. of America. (D. P. Rogers, Dept. of Botany)

National Assoc. of Biology Teachers. (H. Weaver, Dept. of Recreation and Municipal Park Administration)

Nature Conservancy. (L. J. Stannard, Illinois Natural History Survey, Urbana)

Phycological Soc. of America. (L. Hoffman, Dept. of Botany)

Society for Industrial Microbiology. (L. D. Witter, Food Science Dept.)

Society for the Study of Development and Growth. (D. L. Nanney, Dept. of Zoology)

Society for the Study of Evolution. (L. J. Stannard, Illinois Natural History Survey, Urbana)

Society of Nematologists. (D. P. Taylor, 106 Horticulture Field Laboratory)

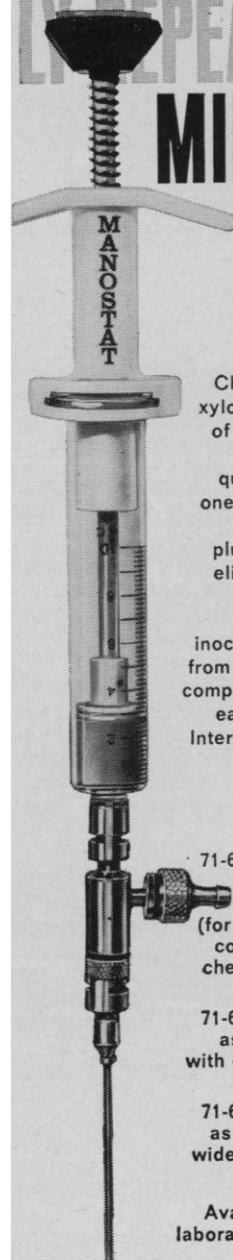
Tomato Genetics Cooperative. (A. Thompson, Dept. of Horticulture)

15-20. **Energetics**, American Soc. of Mechanical Engineers, conf., Rochester, N.Y. (ASME, 345 E. 47 St., New York)

15-21. **Ophthalmology**, 8th Pan American congr., Rio de Janeiro, Brazil. (W. D. Estrada, Praca Cardea, Arcoverde 25, Copacabana, Rio de Janeiro)

16-18. **Guidance and Control**, conf., Minneapolis, Minn. (D. L. Mellen, Mail Station 677, Military Products Group,

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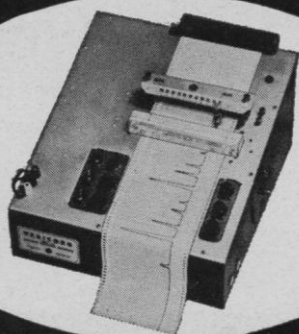
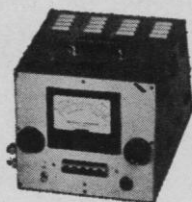
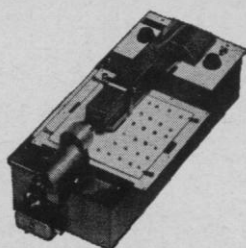
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16-20. Australian-New Zealand Assoc. for the Advancement of Science, Univ. of Tasmania, Hobart, Tasmania, Australia. (K. D. Nicolls, Div. of Soils, CSIRO, Stowell Ave., Hobart)

16-20. Liquid Crystals, conf., Kent State Univ., Kent, Ohio. (G. H. Brown, Dept. of Chemistry, Kent State Univ., Kent)

16-20. American Soc. for Pharmacology and Experimental Therapeutics, fall meeting, Univ. of Pennsylvania, Philadelphia. (E. B. Cook, 9650 Wisconsin Ave., Washington, D.C. 20014)

16-21. Electron Diffraction and the Nature of Defects in Crystals, intern. conf., Melbourne, Australia. (R. I. Garrod, Astronautical Research Laboratories, Box 4331, G.P.O., Melbourne)

16-3. Kinematical and Chemical History of the Galaxy, NATO inst., Sussex, England. (R. Wooley, Herstmonceux Castle, Sussex)

16-3. Radiation Trapped in the Earth's Magnetic Field, NATO institute, Bergen, Norway. (B. M. McCormac, Geophysics Div., IIT Research Inst., 10 W. 35 St., Chicago, Ill. 60515)

17-20. Anesthesiology, symp., Czechoslovak Medical Soc., Prague. (J. Hoder, Unemocnice 2, Prague 2)

17-20. Atmospheric Pollution, 2nd Clean Air Conf., Sydney, Australia. (J. L. Sullivan, New South Wales Dept. of Health, P.O. Box 31, George St. North Post Office, Sydney)

17-27. Infrared Spectroscopy, 16th annual inst., Fisk Univ., Nashville, Tenn. (Director, Fisk Infrared Inst., Fisk Univ., Nashville 8)

18-20. American Astronautical Soc., natl. meeting, San Francisco, Calif. (J. N. Nielsen, P.O. Box 642, Los Altos, Calif.)

18-25. Upper Atmosphere Chemistry Circulation and Aerosols, symp., Intern. Assoc. of Meteorology and Atmospheric Physics, Visby, Sweden. (The Association, Commission of Atmospheric Chemistry and Radioactivity, c/o Natl. Center for Atmospheric Research, Boulder, Colo.)

20-21. American Inst. of Ultrasonics in Medicine, 1st Pan American meeting, Lima, Peru. (C. Bustamante Ruiz, Dept. of Physical Medicine and Rehabilitation, Hospital Obrero, Lima)

21. American Assoc. of Electromyography and Electrodiagnosis, annual, Philadelphia, Pa. (M. K. Newman, 16861 Wyoming Ave., Detroit, Mich. 48221)

21. Spectroscopy, 5th, Intern. Union of Pure and Applied Physics commission, Copenhagen, Denmark. (W. Price, Dept. of Physics, Kings College, Univ. of London, London, W.C.2, England)

21-25. Insect Endocrinology, symp., Prague, Czechoslovakia. (F. Hrabal, Foreign Relations Dept., Czechoslovak Acad. of Sciences, Narodni tr. 3, Prague 1)

22-25. Soil Conservation Soc. of America, Philadelphia, Pa. (H. W. Pritchard, 7515 Ankeny Rd., Ankeny, Iowa)

22-27. Medical Electronics and Biomedical Engineering, Tokyo, Japan. (K. Suhara, Japan Soc. of Medical Electronics and Biological Engineering, Old Toden Bldg., 1-1 Shiba-tamura-cho, Minato-ku, Tokyo)

22-27. Microchemical Techniques, intern. symp., Pennsylvania State Univ.,



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22-27. American Acad. of **Physical Medicine and Rehabilitation**, Philadelphia, Pa. (M. K. Newman, 16861 Wyoming Ave., Detroit, Mich. 48221)

22-28. **Physiology of Giant Algal Cell**, conf., Australian Acad. of Science, Canberra, Australia. (The Academy, Gordon St., Canberra)

22-28. **Industrial Research**, 16th annual conf., Tuxedo, N.Y. (R. T. Livingston, School of Engineering and Applied Science, Columbia Univ., New York, N.Y.)

22-28. **Lunar Geology**, intern. field conf., Bend, Ore. (L. Staples, Dept. of Geology, Univ. of Oregon, Eugene)

23-25. **Cryogenic Engineering**, conf., Houston, Tex. (K. D. Timmerhaus, Engineering Research Center, Univ. of Colorado, Boulder 80304)

23-25. American Soc. of **Human Genetics**, Seattle, Wash. (J. B. Graham, Dept. of Pathology, Univ. of North Carolina, Chapel Hill)

23-25. **Plant Phenolics** Group of North America, annual, Albany, Calif. (V. C. Runeckles, Imperial Tobacco Co. of Canada, P.O. Box 6500, Montreal, Quebec)

23-26. **Clay Minerals** Soc., 2nd annual, Univ. of California, Berkeley. (J. A. Pask, Dept. of Mineral Technology, Univ. of California, Berkeley 94720)

23-26. **Quantum Chemistry**, Physical Chemistry Div., Chemical Inst. of Canada, Edmonton, Alta. (The Institute, 48 Rideau St., Ottawa 2, Ont.)

23-27. Control Procedures in **Drug Production**, seminar, Univ. of Wisconsin, Madison. (W. Blockstein, Extension Services in Pharmacy, Univ. of Wisconsin, Madison)

23-27. **Neurological Surgery**, 3rd intern. congr., Copenhagen, Denmark. (DIS Congress Service, Sankt Peders Straide 19, Copenhagen K)

23-27. American **Ornithologists** Union, Ohio State Univ., Columbus. (R. Mewaldt, San Jose State Teachers College, San Jose, Calif.)

23-27. **Space**, 5th annual conf., Virginia Polytechnic Inst., Blacksburg. (M. L. Collier, Jr., Virginia Polytechnic Inst., Blacksburg)

23-29. European Soc. of **Haematology**, 10th congr., Strasbourg, France. (R. Waitz, Faculté de Médecine, Inst. d'Hématologie, 1, Pl. de l'Hôpital, Strasbourg, Bas-Rhin, France)

23-29. **Logopaedics and Phoniatics**, 13th intern. congr., Vienna, Austria. (Mrs. A. M. Jorg, Vienna Acad. of Medicine, Alserstr. 4, Vienna 9)

23-30. **Limnology**, 16th intern. congr., Warsaw, Poland. (G. E. Hutchinson, Yale Univ., New Haven, Conn.)

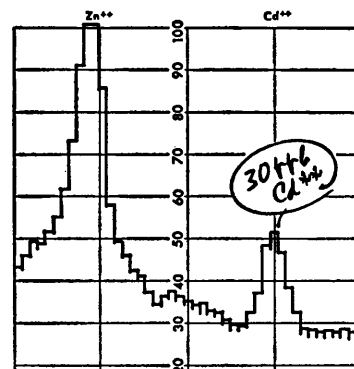
24-26. Association for **Computing Machinery**, 20th natl. conf., Cleveland, Ohio. (G. J. Moshos, P.O. Box 4741, Cleveland)

24-26/28-29. **History of Science**, 11th intern. congr., Warsaw and Krakow, Poland. (W. Voisé, Inst. of the History of Science and Technology, Polish Acad. of Sciences, Nowy Swiat 72, Room 19, Warsaw 1)

24-27. Western **Electronic** Conv. (WESCON), San Francisco, Calif. (E. L. Rogers, Wescon, Suite 203, 780 Welch Rd., Palo Alto, Calif.)

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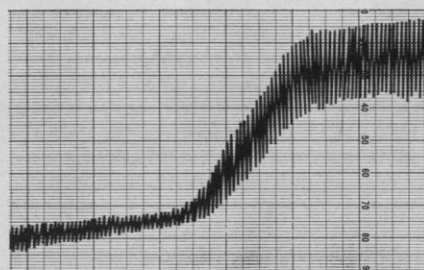
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Melabs Model CPA-3 PULSE POLAROGRAPHIC ANALYZER extends trace analysis to detection limits of 10 parts in a billion (demonstrated in top figure above). The bottom two figures illustrate the improved resolution over conventional polarography obtainable by pulse polarography.

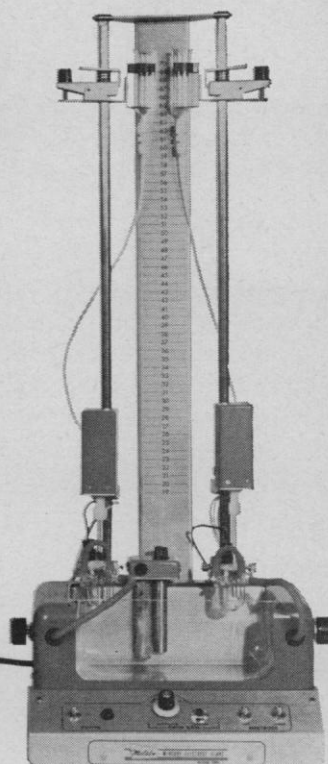
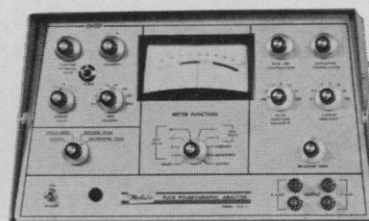
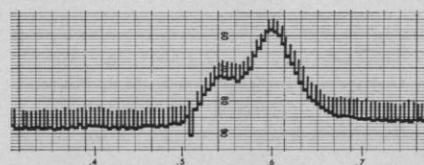
MEASUREMENTS Choice of four operating modes, each making use of accurate three-electrode, controlled-potential circuitry: 1) **Conventional polarography** with improved ability to work in high-resistance solutions. 2) **Single-sweep** for reading times of less than 10 seconds. 3) **Integral-pulse** for better performance with solid electrodes. 4) **Differential pulse** for high sensitivity and resolution.

READOUT Output for strip-chart recorder, X-Y recorder, or oscilloscope.

TYPICAL USES Trace metal analysis. Pesticide residue analysis. Toxicology studies. Pharmaceutical analysis. Air and water pollution studies. Kinetic studies of electrode reactions.



Sample #5 run by conventional polarography and by pulse polarography



Descriptive literature, bibliography, and a list of trace metals analyzed available on request.

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24-28. **Electron Microscope Soc.**, 23rd annual, New York, N.Y. (L. Ross, Anatomy Dept., Cornell Univ. Medical College, 1300 York Ave., New York)

24-28. **American Physiological Soc.**, Univ. of California, Los Angeles. (R. G. Daggs, 9650 Wisconsin Ave., Washington, D.C. 20014)

25-27. **Gas Dynamics**, 6th biennial conf., Evanston, Ill. (A. B. Cambel, Gas Dynamics Symp., Northwestern Univ., Evanston 60201)

25-27. **Thymus**, Ciba Foundation symp., Melbourne, Australia. (Ciba, 41, Portland Place, London, W.1, England)

25-27. **X-Ray Analysis**, 14th annual conf., Denver, Colo. (Metallurgy Div., Denver Research Inst., Univ. of Denver 80210)

25-28. **Systems Engineering for Control System Design**, Tokyo, Japan. (H. M. Paynter, Mechanical Engineering Dept., Massachusetts Inst. of Technology, Cambridge 39)

25-28. **Photochemistry**, intern. conf., Tokyo, Japan. (I. Tanada, Laboratory of Physical Chemistry, Tokyo Inst. of Technology, Ookayama, Meguro-ku, Tokyo)

25-28. **International Phycological Soc.**, Halifax, N.S., Canada. (E. G. Young, Natl. Research Council of Canada, Halifax)

25-28. **Seaweed**, 5th intern. symp., Halifax, N.S., Canada. (E. G. Young, Natl. Research Council of Canada, Halifax)

26-28. **Helium Superfluidity**, symp., St. Andrews, Scotland. (J. F. Allen, St. Andrews Univ., St. Andrews)

26-28. **Neurovirulence**, symp., Munich, Germany. (Permanent Section of Microbiological Standardization, Intern. Assoc. of Microbiological Societies, Inst. d'Hygiène, Geneva, Switzerland)

26-28. **National Council of Teachers of Mathematics**, Vancouver, B.C., Canada. (J. D. Gates, 1201 16th St., NW, Washington, D.C. 20036)

29-2. **American Assoc. of Clinical Chemists**, 17th natl., Chicago, Ill. (M. E. Hanke, 8424 Rhodes Ave., Chicago 60619)

29-2. **Illuminating Engineering Soc.**, New York, N.Y. (A. D. Hinckley, 345 East 47 St., New York 10017)

29-3. **AAAS, Laurentian Hormone Conf.**, Mont Tremblant, Quebec, Canada. (J. C. Foss, Laurentian Hormone Conf., 222 Maple Ave., Shrewsbury, Mass.)

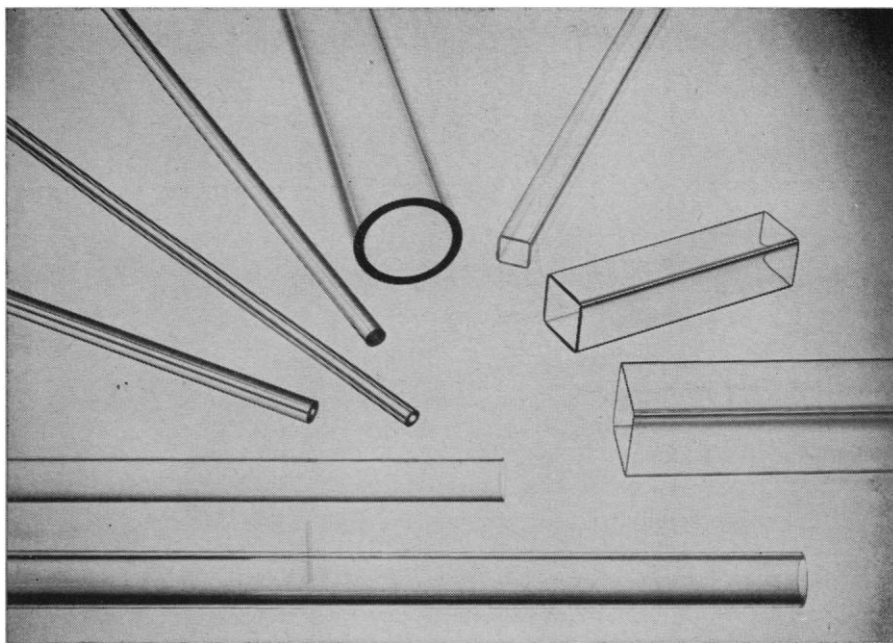
29-10. **Forest Hydrology**, intern. symp., Pennsylvania State Univ., University Park. (W. E. Sopper, School of Forestry, Pennsylvania State Univ., University Park)

30-31. **Past and Future of Science**, symp., Krakow, Poland. (B. Suchodolski, Polish Acad. of Sciences, Palace of Culture and Sciences, Warsaw)

30-1. **Antennas and Propagation**, intern. symp., Washington, D.C. (R. J. Adams, Code 5330, U.S. Naval Research Laboratory, Washington 20390)

30-1. **Applied Mechanics**, West Coast conf., Univ. of California, Los Angeles. (P. M. Naghdi, Div. of Applied Mechanics, Univ. of California, Berkeley 94720)

30-1. **Rare Earth Research**, 5th conf.,



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Editor: A. H. Moseman
AAAS Symposium Volume No. 76
Published October 1964

232 pages, illustrations, references, index.

Price \$6.75. AAAS members' cash orders: \$6.00.

Based on a symposium presented at the Cleveland AAAS Meeting, December, 1963.

Sponsors: AAAS Section on Agriculture, American Society for Microbiology, and AAAS Committee on Desert and Arid Zones Research.

The symposium was devoted to the role of agricultural science and technology in the acceleration of economic progress in newly developing nations. The 12 chapters of this volume comprise an informed summary of the problems and opportunities of technical, economic, and educational assistance in agriculture. The book should also be helpful in furnishing some background experience for the use of agricultural planners in the newly emerging countries.

The viewpoint of the book is that although methods and materials from agriculturally advanced nations can seldom be transferred directly, the developing nations can be aided through the isolation and employment of the principles and procedures which have contributed to agricultural progress in the advanced nations.

Contributors include officers of the Agency for International Development, the U.S. Department of Agriculture, Purdue University, The Ford Foundation, Ohio State University, Cornell University, the University of Chicago, and The Rockefeller Foundation.

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Characteristics of Agricultural Systems in Emerging Nations: "Institutional factors limiting progress in the less developed countries" by Erven J. Long; "Animal agriculture in the emerging nations" by Ralph W. Phillips; and "Plant agriculture in the emerging nations" by J. B. Peterson and R. D. Frazier.

Research to Devise and Adapt Innovations: "Research to improve production of corn in Asia" by Ernest W. Sprague; "Animal and veterinary science programs in developing countries" by Frederick N. Andrews; and "Interactions and agricultural research in emerging nations" by Charles E. Kellogg.

Education and Development of Human Resources: "The role of educated people in agricultural development" by Richard Bradfield; "The rural people of developing countries: Their attitudes and levels of education" by Harold R. Capener; and "The development of effective academic programs for foreign students: Curricular, work experience and social aspects" by David B. Williams.

Establishing Indigenous Institutions to Serve Advancing Agriculture: "Developing agricultural institutions in underdeveloped countries" by F. F. Hill; "New patterns of agricultural research and education in India" by Albert H. Moseman; and "Economic growth from traditional agriculture" by Theodore W. Schultz.

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30-1. **Structural Dynamics and Aeroelasticity**, conf., Boston, Mass. (F. C. Hung, Space Information Systems Div., North American Aviation, Inc., Downey, Calif.)

30-2. **Fluorine Chemistry**, 3rd intern. symp., Munich, Germany. (F. Weygand, Inst. für Organische Chemie, Technische Hochschule München, Arcisstr. 21, 8 Munich 2)

30-2. **Mathematical** Assoc. of America, 46th summer, Cornell Univ., Ithaca, N.Y. (H. M. Gehman, State University of New York at Buffalo, Buffalo 14214)

30-2. **Regional Science** Assoc., 5th European congr., Krakow, Poland. (H. Wood, Dept. of Regional Science, Univ. of Pennsylvania, Philadelphia 19104)

30-2. **American Sociological** Assoc., Chicago, Ill. (G. M. Sykes, ASA, 1755 Massachusetts Ave., NW, Washington, D.C.)

30-3. **Neuropathology**, 5th intern. congr., Zurich, Switzerland. (O. T. Bailey, 912 S. Wood St., Chicago, Ill. 60612)

30-3. **Nuclear Materials Management**, intern. symp., Vienna, Austria. (J. H. Kane, Div. of Special Projects, U.S. Atomic Energy Commission, Washington, D.C.)

30-3. **Society for Applied Spectroscopy**, 4th natl., Denver, Colo. (M. W. Skougstad, 215 Hewitt Bldg., Denver 80202)

30-4. **Ionization Phenomena in Gases**, 7th intern. conf., Belgrade, Yugoslavia. (Organizing Committee, Studentski trg. 16/C/IV, P.O.B. 699, Belgrade)

30-4. **Macromolecular Chemistry**, intern. symp., Prague, Czechoslovakia. (O. Wichterle, 1888 Petřín, Prague 6)

30-4. **Organometallic Chemistry**, 2nd intern. symp., Madison, Wis. (R. West, Dept. of Chemistry, Univ. of Wisconsin, Madison)

30-10. **Population**, 2nd world conf., Belgrade, Yugoslavia. (United Nations Population Commission, United Nations, New York)

30-10. **International Inst. of Refrigeration**, symp., Prague and other cities, Czechoslovakia. (Organizing Committee, Prague 5-Smíchov, Ostrovského 34, Czechoslovakia)

31-11. **Information Theory**, Statistical Decision Functions and Random Processes, 4th conf., Prague, Czechoslovakia. (F. Hrabal, Foreign Relations Dept., Czechoslovak Acad. of Sciences, Narodní tr. 3, Prague 1)

September

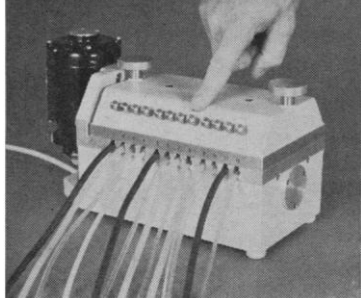
1-3. **American Geophysical Union**, 5th western natl. mtg., Dallas, Tex. (AGU, 1145 19th St., NW, Washington, D.C.)

1-3. **Metallurgists**, 4th annual conf., Ottawa, Ont. (Canadian Inst. of Mining and Metallurgy, 906 Drummond Bldg., 117 St. Catherine St., W., Montreal, Que.)

1-3. **Biomedical Aspects of Shock and Vibration Technology**, symp., Denver, Colo. (E. R. Wilson, 5745 S. Huron St., Littleton, Colo. 80120)

1-4. **Aeronautics**, 6th European congr., Munich, Germany. (Wissenschaftliche Gesellschaft für Luft- und Raumfahrt, Martinstr. 40-42, 5 Cologne)

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1-4. Immunological Methods, symp., Chantilly, France. (R. H. Regamey, Intern. Assoc. of Microbiological Societies, Inst. d'Hygiene, 1200 Geneva, Switzerland)

1-4. Society of General Physiologists, 20th annual, Marine Biological Laboratory, Woods Hole, Mass. (R. Milkman, Dept. of Zoology, Syracuse Univ., Syracuse, N.Y. 13210)

1-5. Regional Science Assoc., 5th European congr., Warsaw, Poland. (H. Wood, Dept. of Regional Science, Univ. of Pennsylvania, Philadelphia 19104)

1-8. History of Pharmacy, intern. congr., London, England. (A. L. Short, Pharmaceutical Soc. of Great Britain, 17 Bloomsbury Sq., London W.C.1)

1-9. Physiological Sciences, 23rd intern. congr., Tokyo, Japan. (G. Kato, Dept. of Physiology, Keio Univ. School of Medicine, Shinjuku-ku, Tokyo)

1-14. Cosmical Gas Dynamics, 5th symp., Nice, France. (M. Roy, Intern. Union of Theoretical and Applied Mechanics, 55, boul. Malesherbes, Paris 8)

1-17. Algebraic Number Theory, instructional conf., Brighton, England. (R. R. Laxton, Mathematics Div., Physics Bldg., Univ. of Sussex, Brighton)

2-4. American Physical Soc., Honolulu, Hawaii. (K. K. Darrow, The Society, Columbia Univ., New York 10027)

2-5. International Medical Assoc. for the Study of Living Conditions and Health, 4th world congr., Karlovy Vary, Czechoslovakia. (Secretariat, Apolinářská 18, Prague 2)

2-9. German Mineralogical Soc., 43rd, Hanover, Germany. (F. Buschendorf, Mineralogisches Inst., Technische Hochschule Hanover, Welfengarten 1, 3 Hanover)

3-7. American Psychological Assoc., 73rd annual, Chicago, Ill. (The Association, 17th and Rhode Island Ave., NW, Washington, D.C.)

5-7. Water Pollution, 3rd intern. conf., Munich, Germany. (B. B. Berger, P.O. Box 1907, Washington, D.C.)

5-8. Federation of French-Speaking Societies of Gynaecology and Obstetrics, 21st congr., Lausanne, Switzerland. (P. Bloch, Hôpital Cantonal, Lausanne)

5-8. Mathematics, 7th Canadian congr., Quebec, Canada. (The Congress, 985 Sherbrook St. W., Montreal, Que.)

5-9. Allergology, 6th European congr., Stockholm, Sweden. (S. Kraepelin, Sachs Children's Hospital, Stockholm)

5-9. Biochemistry of Lipids, 9th intern. congr., Noordwijk, Netherlands. (J. Boldingh, Unilever Research Laboratory, Mercatorweg 2, Vlaardingen, Netherlands)

5-9. Luminescence, symp., Munich, Germany. (N. Riehl, Arcisstr. 21, 8 München, Germany)

5-9. International League Against Rheumatism, 11th congr., Buenos Aires, Argentina. (A. Caruso, Juncal 1875, Planta Baja, Depto. 2, Buenos Aires)

5-9. Physics and Chemistry of Scintillators, intern. luminescence symp., Munich, Germany. (H. Kallman, Radiation and Solid State Laboratory, Dept. of Physics, New York Univ., New York 3)

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COMPOUND	SPECIFIC ACTIVITY (mc/mM)
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Cholestenone-4-C14 [Benzene solution]	15-35
Cholesterol-4-C14 [Benzene solution]	15-35
Cholesterol-26-C14 [Benzene solution]	15-25
Cholesteryl linoleate-1-C14 [Benzene solution]	2-20
Cholesteryl-4-C14 linoleate [Benzene solution]	15-35
Cholesteryl oleate-1-C14 [Benzene solution]	2-20
Cholesteryl-4-C14 oleate [Benzene solution]	15-35
Cholesteryl palmitate-1-C14 [Benzene solution]	2-20
Cholesteryl-4-C14 palmitate [Benzene solution]	15-35
Cortisol-4-C14 [Hydrocortisone-4-C14] [Benzene 10% ethanol solution]	15-25
Cortisone-4-C14 [Benzene 2% ethanol solution]	20-30
Cortisone-4-C14 acetate [Benzene solution]	15-25
Dehydroepiandrosterone-4-C14	15-30
Diethylstilboestrol-(monoethyl-1-C14) [Benzene solution]	5-20
DL-Epinephrine-(carbinol-C14) DL-bitartrate	2-15
DL-nor-Epinephrine-(carbinol-C14) DL-bitartrate	2-15
Estradiol-4-C14 [Benzene 2% methanol solution]	20-40
Estrone-4-C14 [Benzene 5% methanol solution]	20-40
17 α -Hydroxyprogesterone-4-C14 [Benzene solution]	10-40
Δ^5 -Pregnenolone-4-C14 [Benzene solution]	15-25
Progesterone-4-C14 [Benzene solution]	15-25
Testosterone-4-C14 [Benzene solution]	15-30
Testosterone-4-C14 propionate [Benzene solution]	10-20
19-nor-Testosterone-4-C14 [Benzene solution]	15-30

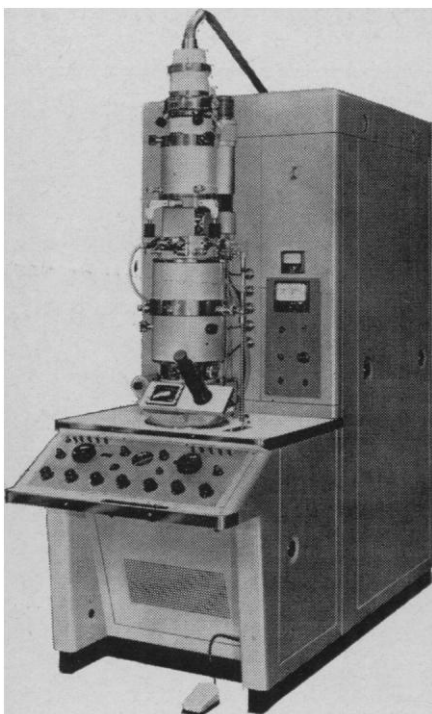
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5-10. International Committee of **Electrochemical Thermodynamics and Kinetics**, 16th mtg., Budapest, Hungary. (S. Lengyel, ELTE Fizikai-Kemial es Radiologiai Tanszek, Puskin u. 11-13, Budapest 8)

5-10. **Electromyography**, intern. mtg., Vienna. (K. Pateisky, Universitats Nerven-klinik, 14 Lazarettgasse, Vienna 9)

5-10. **Neurology**, 8th intern. congr., Vienna, Austria. (Congress Office, Vienna Academy of Medicine, Alserstr. 4, Vienna 9)

5-10. **Ecology of Soil Bacteria**, symp., Liverpool, England. (N. A. Burges, Univ. of Liverpool, Hartley Botanical Laboratories, Liverpool)

5-12. **Electroencephalography and Clinical Neurophysiology**, 6th intern. congr., Vienna, Austria. (M. A. B. Brazier, Brain Research Inst., Univ. of California Medical Center, Los Angeles 24)

5-14. **Fertility and Sterility**, 5th intern. congr., Madrid, Spain. (J. Ascenzo Aabello, Parque Meliton Porras, 161, Miraflores, Lima, Peru)

6-9. **Organosilicon Chemistry**, intern. symp., Prague, Czechoslovakia. (Inst. of Chemical Process Fundamentals, Prague-Suchbát 2)

6-9. **Thermal Analysis**, first intern. conf., Aberdeen, Scotland. (C. B. Murphy, Bldg. 5, General Electric Co., 1 River Rd., Schenectady, N.Y.)

6-10. **Embryology**, 7th intern. conf., Edinburgh, Scotland. (A. S. G. Curtis, Dept. of Zoology, University College London, Gower St., London W.C.1, England)

6-10. **Plasma Physics and Controlled Nuclear Fusion Research**, 2nd conf., Abingdon, England. (H. H. Storhaug, Div. of Scientific and Technical Information, Intern. Atomic Energy Agency, Kärtner Ring 11, Vienna 1, Austria)

6-10. European Organization for **Quality Control**, 9th conf., Rotterdam, Netherlands. (Secretariat, Weena 700, Rotterdam 3)

6-10. International Union of Directors of **Zoological Gardens**, annual, Berlin, Germany. (E. M. Lang, Zoologischer Garten, Basel, Switzerland)

6-11. **Electromagnetic Distance Measurement**, symp., London, England. (R. C. A. Edge, Field Survey, Ordnance Survey, Leatherhead Rd., Chessington, Surrey)

6-11. **Electromagnetic Wave Theory**, Intern. Scientific Radio Union, symp., Delft, Netherlands. (R. Timman, Technological Univ., Julianalaan 132, Delft)

6-11. **Polarization Phenomena of Nucleons**, 2nd intern. conf., Karlsruhe, Germany. (H. Schopper, Institut für Experimentelle Kernphysik, Kernforschungszentrum Karlsruhe, Postfach 947, 75 Karlsruhe)

6-11. **Basic Problems in Thin Film Physics**, intern. symp., Clausthal-Göttingen, Germany. (R. Nossek, Physikalisches Institut, Technische Hochschule, Clausthal)

6-12. International Soc. for Research on **Nutrition and Vital Substances**, Salzburg, Austria. (H. A. Schweigart, The Society, Bemeroderstr., 61, Hanover-Kirchrode, Germany)

6-12. **Photosynthesis**, Western European conf., Zeist, Netherlands. (J. C. Goedheer, Physica Inst., State Univ., Bijlhouwerstraat 6, Utrecht, Netherlands)

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