

PHOTOCHEMISTRY AND PHOTOBIOLOGY

An International Journal

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under the direction of P. R. Gorham and D. C. Mortimer, and from the laboratory of G. Krotov and C. D. Nelson (Queen's University). Mortimer's results showed that downward translocation of products of photosynthesis takes place at greatly varying rates and intensities in different vascular bundles of a leaf. Thus each bundle has to be analyzed separately. The Queen's group showed that translocation is under hormonal control and that there is selective and preferential translocation of certain sugars.

The session on nitrogen included two papers from the laboratory of W. G. Boll (McGill University) on the ability of ethanolamine to replace vitamin B₆ in the nutrition of excised tomato roots, and on the biochemical mechanisms associated with this ability. C. L. Mer (now visiting at Harvard from Imperial College, London) provided a nutrition hypothesis for growth responses in oat seedlings. The hypothesis precludes the necessity to postulate changes in auxin metabolism to account for various growth responses to changed environment.

A session on regulators was of general interest and included papers on light quality and periodicity, on the regulation of enzyme synthesis, photosynthesis, and nuclear activity by hormones, and on the mode of action of herbicides.

The sessions on metabolism covered a wide range of research interests. A growing interest in the phenolic substances in plants was evidenced by a group of papers from the Halifax, Nova Scotia, laboratories of the National Research Council. These included very interesting work on the pathways of lignin biosynthesis and the interrelations of soluble and insoluble derivatives of the many C₆-C₁ and C₆-C₃ phenolic acids in plants. Other papers included biosynthetic studies on indoles, carbohydrates, phosphatides, alkaloids, and chlorophylls. Various problems in plant metabolism, including organic acid metabolism, respiration, frost hardiness, and the influence of seasonal or environmental factors on plant metabolism were also discussed.

A report was made on the cytological and cytophysiological studies of tissue cultures of Jerusalem artichoke and oat coleoptiles. (G. Setterfield and F. Wightman, Carleton University, Ottawa). A number of synthetic auxins which promote cell expansion also promote cell division. Papers were pre-

sented on control mechanisms of amino acid synthesis, on chloroplast bleaching in *Euglena*, and on histochemical tests. Nelson's group from Queen's University presented work on the effect of auxin in controlling cellular permeability and on the electroosmotic transport of C¹⁴-labeled sugars in *Nitella* cells.

The nonscientific event at the meetings was a banquet in honor of D. L. Bailey (University of Toronto). Bailey is retiring from the editorship of the *Canadian Journal of Botany*, the official journal of the society, after a number of years of outstanding service. Special guests included Leo Marion, editor-in-chief of the *Canadian Research Journals*, and Pauline Snure, manager of the editorial office.

At the business meeting it was decided that next year's annual meeting will take place in early June at the University of New Brunswick, Fredericton. G. Setterfield was elected president of the society and A. R. A. Taylor (University of New Brunswick) was elected vice president. Other officers of the society are M. Shaw (University of Saskatchewan), past president; M. Cailloux (Université de Montréal), eastern director; and Mary Spencer (University of Alberta), western director.

R. G. S. BIDWELL

Botany Department, University of
Toronto, Toronto, Ontario

Forthcoming Events

October

10. **Paleontological Research Inst.**, annual, Ithaca, N.Y. (R. S. Harris, 109 Dearborn Pl., Ithaca 14850)

11-14. **American Oil Chemists Soc.**, Chicago, Ill. (C. H. Hauber, AOCS, 35 E. Wacker Dr., Chicago 60601)

11-14. **International Scientific Radio Union/Inst. of Electrical and Electronics Engineers**, joint meeting, Univ. of Illinois, Urbana. (E. C. Jordan, Dept. of Electrical Engineering, Univ. of Illinois, Urbana)

11-15. **Diseases of the Chest**, 8th intern. congr., Mexico City, D.F. (M. Kornfeld, American College of Chest Physicians, 112 E. Chestnut St., Chicago 11, Ill.)

11-15. **Electrochemical Soc.**, Washington, D.C. (ES, 30 E. 42 St., New York, N.Y. 10017)

11-16. **American Assoc. of Medical Record Librarians**, annual, Miami Beach, Fla. (M. J. Waterstraat, RRL, 840 North Lake Shore Dr., Chicago, Ill. 60611)

11-16. **Pan American Assoc. of Ophthalmology**, 7th, Montreal, Canada. (J. W. McKinney, PAAO, 921 Exchange Bldg., Memphis, Tenn.)

11-16. American Soc. of **Plastic and Reconstructive Surgery**, annual, San Francisco, Calif. (P. P. Pickering, 2850 Sixth Ave., Suite B, San Diego, Calif.)

12-14. **Aviation Pathology**, 5th scientific session, Washington, D.C. (Secretary, Joint Committee on Aviation Pathology, Armed Forces Inst. of Pathology, Washington, D.C. 20305)

12-14. **Entry Technology**, American Inst. of Aeronautics and Astronautics conf., Williamsburg, and NASA-Langley Research Center, Va. (S. P. Johnston, AIAA, 1290 Sixth Ave., New York, N.Y.)

12-14. **National Acad. of Sciences**, fall meeting, Univ. of Wisconsin, Madison. (Office of the Home Secretary, NAS, 2101 Constitution Ave., Washington, D.C.)

12-14. **Protection Against Radiations in Space**, 2nd symp., Gatlinburg, Tenn. (F. C. Maienschein, Oak Ridge Natl. Laboratory, P.O. Box X, Oak Ridge, Tenn.)

12-15. **Instrument Soc. of America**, 19th **Instrument-Automation** conf., New York, N.Y. (ISA, 530 William Penn Pl., Pittsburgh, Pa. 15219)

13-15. **Air Force Science and Engineering**, 11th symp., Brooks Air Force Base, Tex. (G. E. Schafer, Headquarters Aerospace Medical Div., Brooks AFB)

13-16. **Calorimetry**, 19th conf., Washington, D.C. (W. N. Hubbard, Argonne Natl. Laboratory, 9700 S. Cass Ave., Argonne, Ill.)

13-16. **Lubrication**, 1st intern. conf., American Soc. of Mechanical Engineers/American Soc. of Lubrication Engineers, Washington, D.C. (W. J. Anderson, MS 6-1, NASA-Lewis Research Center, 21000 Brookpark Rd., Cleveland, Ohio)

13-17. **Electron Microscopy** Soc. of America, 22nd annual, Detroit, Mich. (A. R. Taylor, Virus Div., Parke, Davis & Co., Detroit 32)

14-15. American Soc. of **Tool and Manufacturing Engineers**, Minneapolis, Minn. (R. E. Gariss, 6523 El Pulcro St., Long Beach, Calif.)

14-16. **Gaseous Electronics**, 7th conf., Atlantic City, N.J. (S. Schneider, U.S. Army Electronics R&D Laboratories, Fort Monmouth, N.J. 07703)

14-16. **Parenteral Drug Assoc.**, annual conv., New York, N.Y. (PDA, Broad and Chestnut Sts., Philadelphia 7, Pa.)

14-16. **Remote Sensing of Environment**, 3rd symp., Ann Arbor, Mich. (D. C. Parker, Univ. of Michigan, Box 618, Ann Arbor 48107)

14-16. **Sonics and Ultrasonics**, symp., Santa Monica, Calif. (A. H. Meitzler, Bell Telephone Labs., Inc., Murray Hill, N.J.)

15-16. **Bioenergetics**, symp., Univ. of Western Ontario, London, Ontario, Canada. (K. P. Strickland, Dept. of Biochemistry, Faculty of Medicine, Univ. of Western Ontario, London)

15-16. **Systems Science**, first annual conf., Inst. of Electrical and Electronics Engineers, Univ. of Pennsylvania, Philadelphia. (H. G. Sparks, Moore School of Engineering, Univ. of Pennsylvania, Philadelphia)

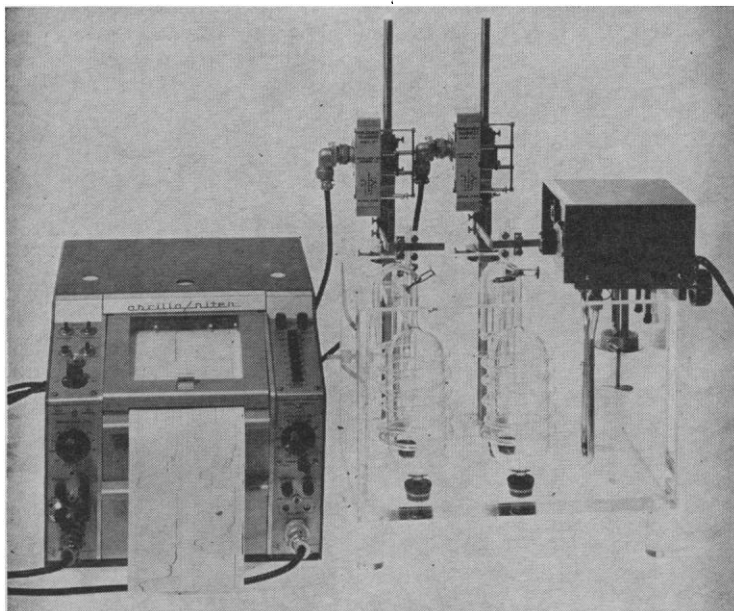
15-17. **Correlation of Particles Emitted in Nuclear Reactions**, intern. conf., Gatlinburg, Tenn. (A. Zucker, Oak Ridge Natl. Laboratory, P.O. Box X, Oak Ridge, Tenn. 37830)

15-17. **Central Neuropsychiatric Assoc.**,

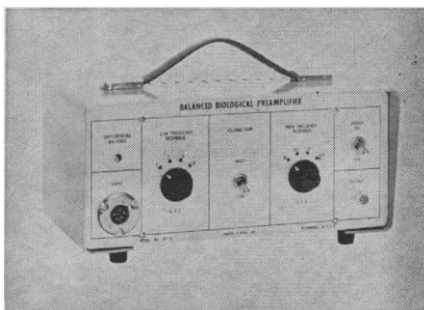
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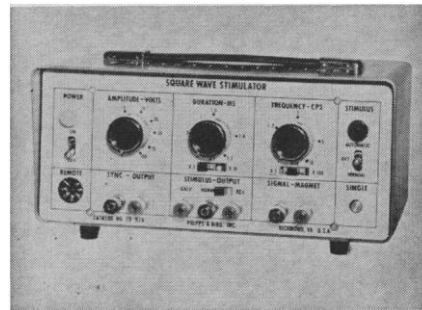
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Denver, Colo. (W. P. Shelton, 8215 Westchester Dr., Dallas 25, Tex.)

15-22. Association of **American Medical Colleges**, 75th annual, Denver, Colo. (P. J. Sanazaro, Div. of Education, Assoc. of American Medical Colleges, 2530 Ridge Ave., Evanston, Ill. 60201)

16-17. Western **Industrial Medical Assoc.**, Los Angeles, Calif. (C. Einert, 2151 Berkeley Way, Berkeley 4, Calif.)

16-17. **Systemics**, 11th annual symp., St. Louis, Mo. (H. C. Cutler, Missouri Botanical Garden, St. Louis)

16-20. American **Medical Women's Assoc.**, New York, N.Y. (M. A. Sears, Anderson Hospital, Houston 25, Tex.)

16-24. American Soc. of **Clinical Pathologists**, annual, Bal Harbor, Fla. (ASCP, 445 N. Lake Shore Dr., Chicago, Ill.)

17-18. Society for **Psychophysiological Research**, 4th annual, Washington, D.C. (L. A. Gustafson, SPR, 74 Fenwood Rd., Boston, Mass. 02115)

17-20. College of American **Pathologists**, Bal Harbor, Fla. (E. E. Simard, Box 136, Salinas, Calif.)

17-25. International **Aeronautic Federation**, general conf., Tel Aviv, Israel. (M. J. Randleman, Natl. Aeronautic Assoc., 1025 Connecticut Ave., NW, Washington, D.C. 20036)

18-21. Association of **Military Surgeons** of the U.S., Washington, D.C. (Brig. Gen. F. E. Wilson, Suite 132, 1500 Massachusetts Ave., NW, Washington, D.C. 20005)

18-22. **Metallurgical Soc.**, fall meeting, Philadelphia, Pa. (D. A. Parks, Inst. of Metals Div., Metallurgical Soc. of AIME, 345 E. 47 St., New York, N.Y. 10017)

18-23. American Acad. of **Ophthalmology and Otolaryngology**, Chicago, Ill. (W. L. Benedict 15 Second St., SW, Rochester, Minn. 55901)

18-24. **Dental Education**, 2nd Latin American seminar, Mexico City. (D. Restrepo, Pan American Sanitary Bureau, 1501 New Hampshire Ave., NW, Washington, D.C. 20036)

19-20. **Unconventional Inertial Sensors**, symp. (secret), Farmingdale, N.Y. (R. E. McIntyre, RMG-8, Bureau of Naval Weapons, Washington 25, D.C.)

19-21. **Mechanisms**, conf., American Soc. of Mechanical Engineers, Lafayette, Ind. (T. P. Goodman, Technological Inst., Northwestern Univ., Evanston, Ill.)

19-21. Academy of **Psychosomatic Medicine**, New York, N.Y. (R. N. Rutherford, 200 Broadway, Seattle, Wash.)

19-21. Technical Assoc. of the **Pulp and Paper Industry**, plastics-paper conf., Washington, D.C. (TAPPI, 360 Lexington Ave., New York 10017)

19-22. Association of Official **Agricultural Chemists**, 78th annual, Washington, D.C. (L. G. Ensminger, AOAC, Box 540, Benjamin Franklin Station, Washington, D.C. 20044)

19-23. American Soc. of **Civil Engineers**, New York, N.Y. (W. H. Wisely, ASCE, 345 E. 47 St., New York, N.Y. 10017)

19-23. American Soc. for **Metals**, Philadelphia, Pa. (A. R. Putnam, ASM, Metals Park, Ohio)

19-23. **Radiochemical Methods of Analysis**, symp., Salzburg, Austria. (Intern. Atomic Energy Agency, 11 Karntnering, Vienna 1, Austria)

20-30. Nov. **UNESCO**, 13th session, general conf., Paris, France. (UNESCO, Place de Fontenoy, Paris 7°)

21. **Animal Nutrition Research Council**, annual, Washington, D.C. (K. Maddy, Agricultural Chemicals Div., Monsanto Chemical Co., 800 N. Lindbergh Blvd., St. Louis 66, Mo.)

21-22. American Heart Assoc., Council on **Arteriosclerosis**, annual, Atlantic City, N.J. (D. M. Smith, AHA, 44 E. 23 St., New York, N.Y. 10010)

21-22. **Industrial Hygiene Foundation**, annual, Pittsburgh, Pa. (R. T. P. deTreville, IHF, 4400 Fifth Ave., Pittsburgh 15213)

21-23. **Aerospace and Navigational Electronics**, 11th East Coast conf., Baltimore, Md. (M. Hastings, Mail No. 1281 A, Baltimore Space and Defense Center, Westinghouse Electric Corp., P.O. Box 1693, Baltimore 21203)

21-23. **Pain**, intern. symp., Detroit, Mich. (R. S. Knighton, 2799 W. Grand Blvd., Detroit)

21-23. **Spectroscopy, Instrumentation and Chemistry**, 3rd Pacific meeting, San Francisco, Calif. (J. G. Conway, Lawrence Radiation Laboratory, Univ. of California, Berkeley 4)

21-24. **Acoustical Soc. of America**, 68th, Austin, Tex. (W. Waterfall, ASA, 335 E. 45 St., New York, N.Y. 10017)

21-25. **Cybernetics**, 4th intern. congr., Namur, Belgium. (Intern. Assoc. for Cybernetics, 13 rue Basse-Marcelle, Namur)

22-23. **New Mexico Acad. of Science**, Albuquerque. (K. S. Bergstresser, 739 42 St., Los Alamos, N.M.)

23-24. **Kentucky Acad. of Science**, Morehead. (G. Levey, College Box 2325, Berea, Ky.)

23-24. American **Physical Soc.**, Chicago, Ill. (R. G. Sachs, Argonne National Laboratory, Argonne, Ill. 60440)

23-25. Association of **Clinical Scientists**, Washington, D.C. (R. P. MacFate, 300 N. State St., No. 5422, Chicago, Ill. 60610)

23-25. **Experimental Gerontology**, symp., Basel, Switzerland. (Prof. Verzar, Inst. de Gerontologie Experimentale, Nonnenweg 7, Basel, Switzerland)

24-29. American Acad. of **Pediatrics**, annual, New York, N.Y. (AAP, 1801 Hinman Ave., Evanston, Ill.)

25-31. American Soc. for **Horticultural Science**, Caribbean Region, 12th annual, Maracay, Venezuela. (E. H. Casseres, Londres 40, México 6, D.F.)

26-27. American Inst. of **Aeronautics and Astronautics**/Canadian Aeronautics and Space Inst., joint meeting, Ottawa, Ont., Canada. (P. J. Burr, AIAA, 1290 Sixth Ave., New York, N.Y. 10019)

26-27. **Combustion Inst.**, western states section, fall meeting, Univ. of Utah, Salt Lake City. (Secretary, CI, 16902 Bollinger Dr., Pacific Palisades, Calif. 90272)

26-28. **Antimicrobial Agents and Chemotherapy**, 4th conf., American Soc. for Microbiology, New York, N.Y. (ASM, 115 Huron View Blvd., Ann Arbor, Mich.)

26-28. Chemical Inst. of Canada, 14th **Chemical Engineering** meeting, Hamilton, Ont. (CIC, 48 Rideau St., Ottawa 2)

26-28. Society of **Rheology**, 35th annual, Pittsburgh, Pa. (H. Markovitz, Mellon Institute, 4400 Fifth Ave., Pittsburgh 13)