SCIENCE

2 June 1961

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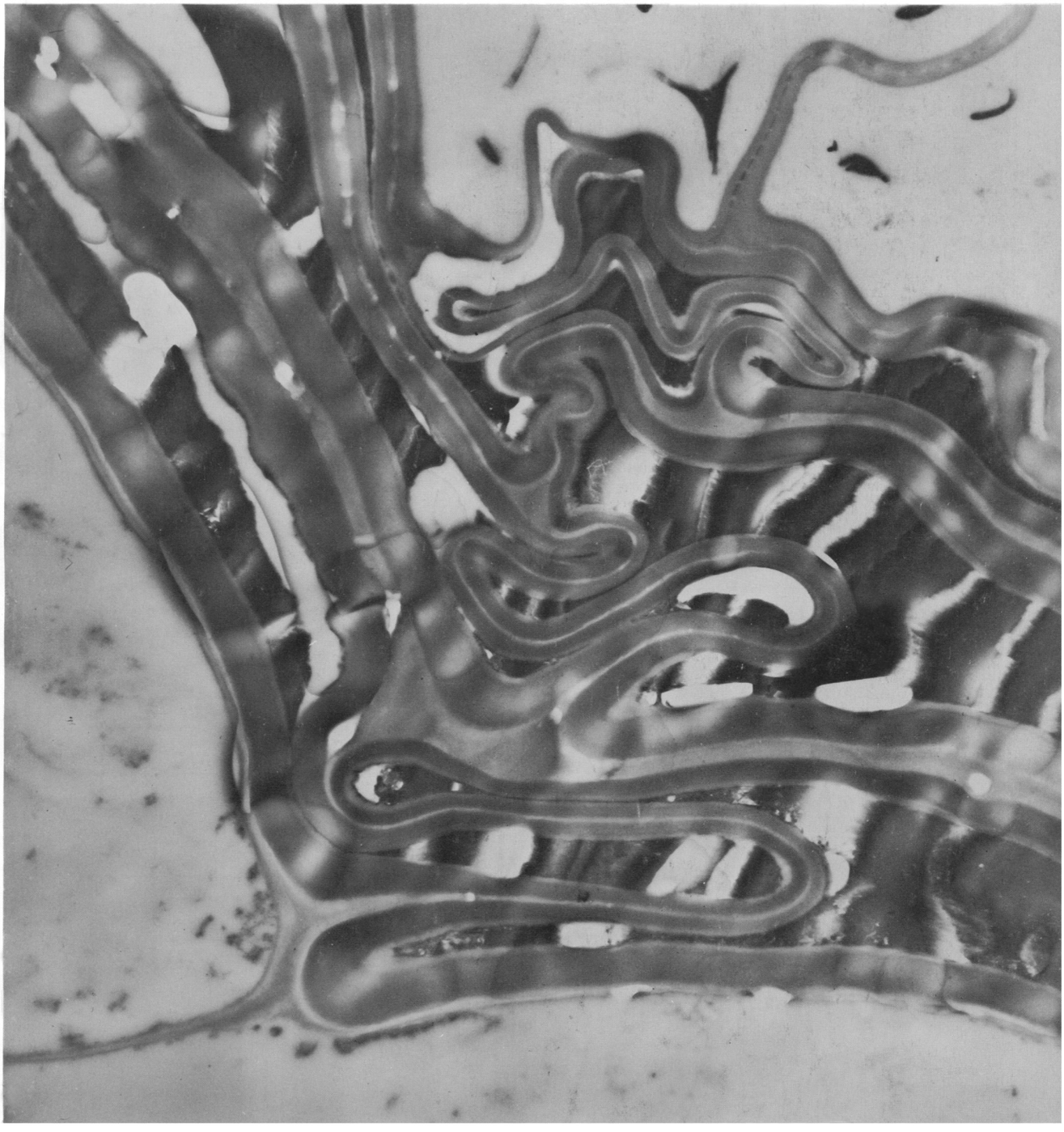
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE



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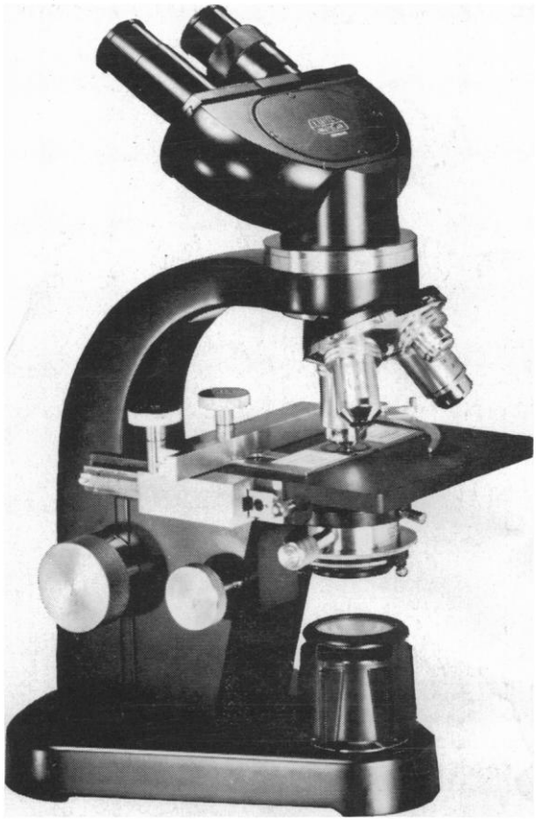

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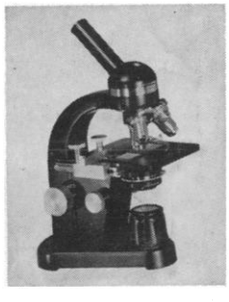

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Cover Radial view of the outer bark of a 2-year-old white pine twig, fixed in osmium. The material showing is mainly bark cell wall, distorted by pressure of growth. (Electron microscope, about × 9400). [Johnson Parker, Yale University; Delbert E. Philpott, Woods Hole Marine Biological Laboratory]

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Stanford Accelerator Again

Approval by the White House two years ago of plans to build the world's largest linear accelerator completed a chapter in the efforts to finance this instrument, but did not complete the book. The accelerator would be built at Stanford University and the cost is now put at $114 million. Responsibility for the program was assigned to the Atomic Energy Commission, but efforts to get the Joint Congressional Atomic Energy Committee to approve funds for construction have so far proved unsuccessful and the matter is now again before the committee. To assure a balanced research program in the face of such costly instruments, the White House science advisers had developed the theory that administrative planning for this and comparable expected expenditures should be carried out at an interagency, interdepartmental level. This was done, but with the assignment of the program to the AEC and the consequent need for approval by the Joint Committee, the program has got caught up in questions not directly related to the assessment of our research requirements

In the Joint Committee's deliberations last year, for example, some Democrats were prepared to be unenthusiastic about funds for construction of the accelerator to the extent that they experienced opposition to their own plans to provide the nuclear power reactor at Hanford, Washington, with generating equipment. The electricity produced would be used in the public power program of the Bonneville Power Administration. Democrats on the committee were also reluctant to provide Nixon, then Vice-President, with campaign opportunities in the form of ground-breaking ceremonies. There was also some lack of a sense of urgency for the accelerator in the AEC itself, perhaps because of resentment at being told what to do by people outside the commission.

These factors were, it is true, only in the background. In the foreground was the Joint Committee's concern with the proper assessment of our research needs. If the Eisenhower Administration took several years to convince itself of the wisdom of this expenditure, we should not be surprised that a Congressional committee finds it necessary to convince itself in turn. Questions still under consideration include: How much high-energy physics do we need? Does the Stanford accelerator best meet this need? What relationship will exist between Stanford and the AEC? Putting the foreground against the background, the result of last year's deliberations was that, although no money was provided for construction, $3 million was forthcoming for studies preliminary to construction. Since these studies had to be made in any event, the claim was that this small appropriation would not actually delay the program.

As matters stand this year, generating equipment for the Hanford power reactor is in the Kennedy budget, the political campaign is over, and the accelerator, according to informed sources, has been delayed about 6 months. The AAAS, incidentally, has participated in this seeking of funds, if only by providing a bit of the scenery. The original announcement by Eisenhower that he favored the accelerator was made at a AAAS symposium on the support of basic research and obstacles to that support. These particular obstacles now seem to have dissolved, although perhaps a different strategy by the Administration might have avoided them in the first place. The chances are that when the Joint Committee makes its report to Congress, probably by the end of this month, it will recommend funds for construction.—J.T.

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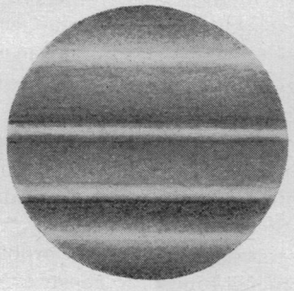

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The society holds two regularly scheduled meetings each year—the ASLE Annual Meeting and Lubrication Exhibit, held in the spring, and the Joint Lubrication Conference, held in the fall and cosponsored by other engineering groups.

Current officers of the society are as follows: president, L. O. Witzenburg (Eaton Manufacturing Company); secretary, A. E. Cichelli (Bethlehem Steel Company); treasurer, W. E. Hoch (Viscosity Oil Company); vice-president at large, D. M. Cleaveland (Bendix Corporation); and executive secretary, Calvert L. Willey.

CALVERT L. WILLEY
American Society of Lubrication Engineers, Chicago, Illinois

Science Abstracting and Indexing

The National Federation of Science Abstracting and Indexing Services, a new affiliate of the AAAS, was organized in 1958 by the major abstracting and indexing organizations of the United States to coordinate their efforts and seek ways of improving them. The ultimate goal of the federation is to improve communication among scientists through the documentation (abstracting, indexing, and analyzing) of international scientific literature.

The federation provides a broad and comprehensive program. Its activities range from research and education to the publication of lists of scientific and technological periodicals. As new problems or new techniques arise from advances in documentation, the federation will broaden its activities by including them.

By means of working group committees reporting to the secretariat, the federation is endeavoring to achieve its aims through cooperative efforts in such

problem areas as bibliographic, indexing, and abstracting standards; coverage overlaps and gaps; transliteration; copyright laws; definition of terminology; costs and financing; procurement of hard-to-obtain journals; journal inventories; mechanization in all phases of the operation of secondary-source information services; and information retrieval. For example, the federation has recently adopted a uniform standard for Cyrillic transliteration.

The affairs of the federation are administered by the executive secretary and his staff in the national offices, located at 301 East Capitol Street, Washington, D.C.

Members of the federation include the following: *Applied Mechanics Reviews, ASTIA Technical Abstract Bulletin, Bibliography of Agriculture, Biological Abstracts, Chemical Abstracts, Engineering Index, Fire Research Abstracts and Reviews, GeoScience Abstracts, Index Medicus, International Aerospace Abstracts, Mathematical Reviews, Meteorological and Geoastrophysical Abstracts, Nuclear Science Abstracts, Prevention of Deterioration Abstracts, Psychological Abstracts, Review of Metal Literature, Tobacco Abstracts*, and *United States Government Research Reports* (Office of Technical Services, U.S. Department of Commerce).

The federation holds annual meetings, the most recent of which was held in Cleveland on 9 and 10 March. Papers were presented as follows: "The literature problem for scientists and engineers," Richard S. Leghorn (president, Itek Corporation); "The price tag for meeting the literature crises," G. Miles Conrad (director, *Biological Abstracts*); and "The impact of the information problem upon higher education," John S. Millis (president, Western Reserve University). A panel discussion on responsibilities for meeting the literature crisis was moderated by Allen Kent (Center for Documentation and Communication Research, Western Reserve University); participants were Dolph G. Ebeling (Knolls Atomic Power Laboratory, General Electric Company, Schenectady, N.Y.), Burton W. Adkinson (Office of Science Information Service, National Science Foundation), Edwin Castagna (Enoch Pratt Free Library), Jesse H. Shera (School of Library Science, Western Reserve University), and Verner W. Clapp (Council on Library Resources, Inc.).

Officers of the federation for 1961–62 are as follows: Dale B. Baker (Chemical Abstracts Service), president; John C. Green (Office of Technical Services, U.S. Department of Commerce), vice-president; Marjorie R. Hyslop (*Review of Metal Literature*), treasurer; Carolyn M. Flanagan (*Engineering Index*), secretary. Other members of the board of directors are Robert L. Shannon (Office of Technical Information Extension, U.S. Atomic Energy Commission); Arthur C. Hoffman (*Psychological Abstracts*); Martin Goland (*Applied Mechanics Reviews*); S. H. Gould (*Mathematical Reviews*); J. Heston Heald (*ASTIA Technical Abstract Bulletin*); Margaret S. Bryant (U.S. Department of Agriculture Library); Seymour I. Taine (National Library of Medicine); G. Miles Conrad (*Biological Abstracts*); and Kenneth C. Spengler (*Meteorological and Geoastrophysical Abstracts*).

Federation publications include *A Guide to U.S. Indexing and Abstracting Services in Science and Technology* (prepared by the Library of Congress); *Some Counterparts in Perspective (A detailed report on visits to the Soviet All-Union Institute of Scientific and Technical Information; the Polish Central Institute for Documentation in Sci-*

ence and Technology; the Excerpta Medica Foundation and the Danish Technical Information Service), by D. B. Baker, G. M. Conrad, J. C. Green, M. Hoseh, and R. A. Jensen; and the published proceedings of each year's annual meeting.

The federation has recently undertaken the preparation of a program for studying the role of science abstracting and indexing services in solving the over-all information problem. The results of this work should provide a broad picture of efforts to communicate scientific information in the United States, from the time such information is available until it becomes obsolete. It is hoped that this plan will provide direction for all efforts in abstracting and indexing in the United States, both within and outside the government, for some years ahead.

The present AAAS Council representative is G. Miles Conrad, organizer, founder, and first president of the federation.

RAYMOND A. JENSEN
National Federation of Science Abstracting and Indexing Services, Washington, D.C.

Forthcoming Events

June

22–23. American Rheumatism Assoc., New York, N.Y. (F. E. Demartini, 622 W. 168 St., New York 32)

22–23. Computers and Data Processing, 8th annual symp., Estes Park, Colo. (W. H. Eichelberger, Denver Research Inst., Univ. of Denver, Denver, Colo.)

22–24. Endocrine Soc., New York, N.Y. (H. H. Turner, 1200 N. Walker, Oklahoma City 3, Okla.)

22–26. American College of Chest Physicians, New York, N.Y. (M. Kornfeld, 112 E. Chestnut St., Chicago 11, Ill.)

23–25. American College of Angiology, 7th annual, New York, N.Y. (A. Halpern, Secretary, 11 Hampton Court, Great Neck, N.Y.)

25–28. American Soc. of Agricultural Engineers, annual, Ames, Iowa. (J. L. Butt, 420 Main St., St. Joseph, Mich.)

25–29. Morphological Precursors of Cancer, intern. symp. (by invitation only), Perugia, Italy. (L. Severi, Div. of Cancer Research, Univ. of Perugia, P.O. Box 167, Perugia)

25–30. American Medical Assoc., 110th annual, New York, N.Y. (AMA, 535 N. Dearborn St., Chicago 10, Ill.)

25–30. American Soc. for Testing Materials, Atlantic City, N.J. (R. J. Painter, 1916 Race St., Philadelphia, Pa.)

25–30. International Union of Leather Chemists Societies, 8th congr., Washington, D.C. (F. O'Flaherty, Dept. of Leather Research, Univ. of Cincinnati, Cincinnati 21, Ohio)

25–30. National Education Assoc. of the U.S., Atlantic City, N.J. (W. G. Carr, 1201 16 St., NW, Washington 6)

26–27. Conference on Vacuum Metallurgy, 5th annual conf., New York, N.Y. (R. F. Bunshah, Dept. of Metallurgical Engineering, New York Univ., New York 53)

26–28. American Soc. of Heating, Refrigerating and Air-Conditioning Engineers, 68th annual, Denver, Colo. (J. H. Cansdale, ASHRAE, 234 Fifth Ave., New York 1)

26–28. Control of Noise, symp., Teddington, England. (Director, Natl. Physical Laboratory, Teddington, Middlesex)

26–28. European Symp. on Space Technology, London, England. (Secretary, British Interplanetary Soc., 12 Bessborough Gardens, London, S.W.1)

26–28. Military Electronics, 5th natl. convention, Washington, D.C. (H. Davis, SAFRD, Pentagon, Washington 25)

26–30. American Soc. for Engineering Education, annual, Lexington, Ky. (M. Baker, Univ. of Kentucky, Lexington)

26–30. Concepts and Design in Aerospace Electricity, Philadelphia, Pa. (D. H. Scott, General Electric Co., No. 3, Penn Center Plaza, Philadelphia 2)

26–30. Reading Conf., 3rd annual, Syracuse, N.Y. (R. A. Kress, Syracuse Univ., Syracuse 10)

26–9. Large Dams, 7th intern. congr., Rome, Italy. (U.S. Committee on Large Dams, c/o Engineering Joint Council, 29 W. 39 St., New York 18)

27. Colloid Symp., by Faraday Soc., Glasgow, Scotland. (A. S. Hyde, Chemistry Dept., Royal College of Science and Technology, Glasgow, C.1)

27–29 Analytical Astrodynamics, intern. symp., Santa Barbara, Calif. (Capt. J. L. Gilbert, Air Force Office of Scientific Research, Washington 25)

27–29. Society for Investigative Dermatology, Inc., New York, N.Y. (H. Beerman, 255 S. 17 St., Philadelphia 3, Pa.)

27–30. American Home Economics Assoc., Cleveland, Ohio. (Miss M. Warren, School of Home Economics, Univ. of Oklahoma, Norman)

27–30. Hurricanes, 2nd technical conf., American Meteorological Soc., Miami Beach, Fla. (AMS, 45 Beacon St., Boston 8, Mass.)

28–30. International Gas Conf., 8th, Stockholm, Sweden. (R. H. Touwaide, Union Internationale de l'Industrie du Gaz, 4, avenue Palmerston, Brussels 4)

28–30. Joint Automatic Control Conf., Boulder, Colo. (R. Kramer, Massachusetts Inst. of Technology, Cambridge 39)

28–1. Institute of Navigation, annual, Williamsburg, Va. (C. T. French, General Precision, Inc., 777 14 St., NW, Suite 611, Washington, D.C.)

29–1. American Assoc. of Physics Teachers, Stanford, Calif. (R. P. Winch, Williams College, Williamstown, Mass.)

July

1–3. Astronomical League, Detroit, Mich. (W. A. Cherup, 4 Klopfer St., Millvale, Pittsburgh 9, Pa.)

(See issue of 19 May for comprehensive list)