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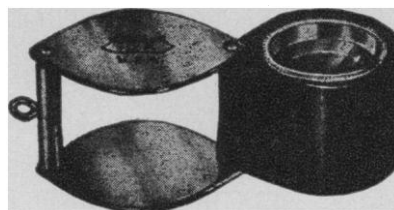
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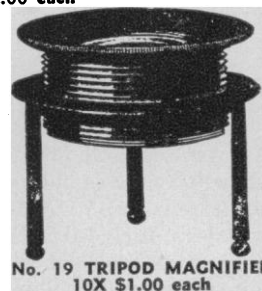
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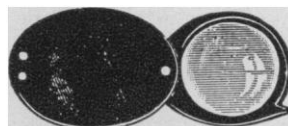
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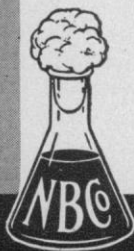
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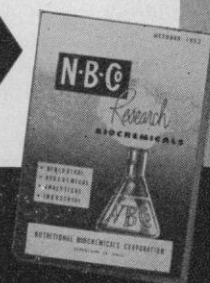
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The book is clearly written and readable, and discussion is kept close to numerical illustrations and to data from such fields as psychology, genetics, tests of materials, crops, biology, and economics. It does not give discussions of procedure needed in various experimental situations nor does it catalog statistical methods in the classic order. No discussion of analysis of variance or of experimental design is found. The book should be an excellent preparation for courses either in more deeply mathematical statistics or in experimental statistics. For these uses, it seems very sound.

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Books Reviewed in THE SCIENTIFIC MONTHLY

April

- Age and Achievement*, Harvey C. Lehman (Princeton Univ. Press). Reviewed by Stanford C. Ericksen.
- The Making of a Scientist*, Anne Rol (Dodd, Mead). Reviewed by W. J. Brogden.
- The Logic of Modern Science*, J. R. Kantor (Principia Press). Reviewed by Paul R. Farnsworth.
- Steps in Psychotherapy*, John Dollard, Frank Auld, Jr. and Alice Marsden White; Dael Wolfe, Ed. (Macmillan). Reviewed by Raymond W. Waggoner.
- Films in Psychiatry, Psychology and Mental Health*, Adolf Nichtenhauser, Marie Coleman, and David Ruhe (Health Education Council). Reviewed by Edith M. Lindsay.
- Introduction to Electric Theory*, R. G. Fowler (Addison-Wesley). Reviewed by William V. Smith.
- J. Robert Oppenheimer and the Atomic Story*, J. Alvin Kugelmass (Julian Messner). Reviewed by W. Paul Gilbert.
- Puritan Sage: Collected Writings of Jonathan Edwards*, Vergilius Ferm, Ed. (Library Pub.). Reviewed by Clarence L. Ver Steeg.
- Conquest of the Moon*, Wernher von Braun, Fred L. Whipple, and Willy Ley (Viking Press). Reviewed by Charles H. Smiley.
- Living with a Disability*, Howard A. Rusk and Eugene J. Taylor (Blakiston). Reviewed by Oscar O. Selke, Jr.
- Disease and Its Conquest*, G. T. Hollis (Oxford Univ. Press). Reviewed by Gaylord W. Anderson.
- Managing Your Coronary*, William A. Brams (J. B. Lippincott). Reviewed by Emmet B. Bay.
- Elements of Chordate Anatomy*, Charles K. Weichert (McGraw-Hill). Reviewed by D. H. Barron.
- Cardano, the Gambling Scholar*, Oystein Ore (Princeton Univ. Press). Reviewed by Samuel Karlin.

Contributions to the Theory of Games, Vol. II, H. Kuhn and A. W. Tucker, Eds. (Princeton Univ. Press). Reviewed by Samuel Karlin.

May

- Atomic Weapons in Land Combat*, G. C. Reinhardt and W. R. Kintner (Military Service Pub.). Reviewed by L. H. Rumbaugh.
- Atoms and Energy*, H. S. W. Massey (Elek Books; British Book Centre). Reviewed by Arthur H. Snell.
- Relativity and Reality*, E. G. Barter (Philosophical Library). Reviewed by M. E. Shanks.
- Statistical Methods in Experimentation: An Introduction*, Oliver L. Lacey (Macmillan). Reviewed by Joseph Berkson.
- The Scientific Adventure*, Essays in the History and Philosophy of Science, Herbert Dingle (Philosophical Library). Reviewed by Waldo H. Furgason.
- An Introduction to Relaxation Methods*, F. S. Shaw (Dover). Reviewed by Carl H. Walther.
- General Biochemistry*, William H. Peterson and F. M. Strong (Prentice-Hall). Reviewed by Harry G. Day.
- Scientific Explanation*, R. B. Braithwaite (Cambridge Univ. Press). Reviewed by B. Clifford Hendricks.
- Practical Taxidermy*, A Working Guide, John W. Moyer (Ronald Press). Reviewed by Charles S. East.
- A Herd of Mule Deer*, Jean M. Linsdale and P. Quentin Tomich (Univ. of Calif. Press). Reviewed by David H. Johnson.
- How Animals Move*, James Gray (Cambridge Univ. Press). Reviewed by William L. Straus, Jr.
- Plant Diseases in Orchard, Nursery and Garden Crops*, Ernst Gram and Anna Weber; R. W. G. Dennis, Ed. (Philosophical Library). Reviewed by Thomas H. King.
- Motivation and Morale in Industry*, Morris C. Viteles (Norton). Reviewed by Kimball Young.
- The Recovery of Belief*, C. E. M. Joad (Faber and Faber; Macmillan). Reviewed by Theodore M. Greene.
- The Suez Canal in World Affairs*, Hugh J. Schonfield (Philosophical Library). Reviewed by George Lenczowski.
- The Primitive City of Timbuctoo*, Horace Miner (Princeton Univ. Press). Reviewed by William Bascom.
- The Way of the World*, The Rushton Lectures for 1952, George H. T. Kimble (George Grady Press). Reviewed by Meredith F. Burrill.
- Clay Mineralogy*, Ralph E. Grim (McGraw-Hill). Reviewed by Margaret D. Foster.
- Conversation with the Earth*, Hans Cloos (Alfred A. Knopf). Reviewed by George T. Faust.
- Machines That Built America*, Roger Burlingame (Harcourt, Brace). Reviewed by Clyde E. Dankert.

June

- Oil in the Soviet Union*, Heinrich Hassman (Princeton Univ. Press). Reviewed by L. L. Sloss.
- A Field Guide to Rocks and Minerals*, Frederick H. Pough (Houghton Mifflin). Reviewed by Victor T. Allen.
- Climatic Change*, Harlow Shapley (Harvard Univ. Press). Reviewed by Herbert B. Nichols.
- From Fish to Philosopher*, Homer W. Smith (Little, Brown). Reviewed by W. B. Stallworthy.
- The Achievement Motive*, David C. McClelland *et al.* (Appleton-Century-Crofts). Reviewed by John F. Dashiell.

The Major Features of Evolution, George G. Simpson (Columbia Univ. Press). Reviewed by Carleton S. Coon.

Geography in the Twentieth Century, ed. 2, Griffith Taylor, Ed. (Methuen; Philosophical Library). Reviewed by George B. Cressey.

Communication and Persuasion, Carl I. Hovland, Irving L. Janis, and Harold H. Kelley (Yale Univ. Press). Reviewed by Richard W. Husband.

Psychologie, Grundlagen, Ergebnisse und Probleme der Forschung, George Anschütz (Richard Meiner). Reviewed by L. von Bertalanffy.

Readings in the Philosophy of Science, Herbert Feigl and May Brodbeck, Eds. (Appleton-Century-Crofts). Reviewed by Ralph Buchsbaum.

Standard Methods of Clinical Chemistry, Vol. I, Miriam Reimer, Ed. (Academic Press). Reviewed by Beverly L. Clarke.

Plane Trigonometry, Paul R. Rider (Macmillan). Reviewed by Wallace Givens.

Elementary Quantitative Analysis, Ralph L. Van Peursem and Homer C. Ines (McGraw-Hill). Reviewed by Clark E. Bricker.

Preparation for Medical Education in the Liberal Arts College, Aura E. Severinghaus, Harry J. Carman, and William E. Cadbury (McGraw-Hill). Reviewed by Alan Gregg.

Scientific American Reader, (Simon & Schuster). Reviewed by Bowen C. Dees.

Astrology and Alchemy: Two Fossil Sciences, Mark Graubard (Philosophical Library). Reviewed by Frank K. Edmondson.

The Journals of Lewis and Clark, Bernard De Voto, Ed. (Houghton Mifflin). Reviewed by E. Ashby Hammond.

New Books

Simultaneous Linear Equations and the Determination of Eigenvalues. Natl. Bur. of Standards Applied Mathematics Ser. 29, 1953. L. J. Paige and Olga Taussky, Eds. Distr. by Supt. of Documents, GPO, Washington 25, D.C. 126 pp. \$1.50.

Inorganic Syntheses. Vol. IV. John C. Bailar, Jr., Ed. McGraw-Hill, New York, 1953. 218 pp. Illus. \$5.

Biochemistry and Physiology of Nutrition. Vol. II. Geoffrey H. Bourne and George W. Kidder, Eds. Academic Press, New York, 1953. 641 pp. Illus. \$15.

Clinical Orthoptic Procedure. ed. 2. William Smith. Mosby, St. Louis, 1954. 524 pp. Illus. \$10.

Biochemical Preparations. Vol. 3. Esmond E. Snell, Ed. Wiley, New York, 1953. 128 pp. Illus. \$3.50.

Table of Natural Logarithms for Arguments Between Zero and Five to Sixteen Decimal Places. Natl. Bur. of Standards Applied Mathematics Ser. 31, 1953. Distr. by Supt. of Documents, GPO, Washington 25, D.C. x + 501 pp. \$3.25.

Nature and Structure of Collagen. Papers presented for a discussion convened by the Colloid and Biophysics Committee of the Faraday Society, March 26-27, 1953. J. T. Randall, Ed. Academic Press, New York; Butterworths, London, 1953. 269 pp. Illus. \$6.50.

Bali: Temple Festival. Monographs of the American Ethnological Society, XXII. Jane Belo. J. J. Augustin, Locust Valley, N.Y., 1953. 70 pp. Illus. + plates. \$2.75.

Mammalian Germ Cells. Ciba Foundation Symposium. G. E. W. Wolstenholme, Ed. Little, Brown, Boston, 1953. 302 pp. Illus. + plates. \$6.75.

Detergency Evaluation and Testing. Jay C. Harris. Interscience, New York, 1954. 210 pp. Illus. \$3.75.

Introduction to Chemistry. R. T. Sanderson. Wiley, New York; Chapman & Hall, London, 1954. 542 pp. Illus. \$5.50.

Jaarboek, 1952-1953. Koninklijke Nederlandse Akademie van Wetenschappen. Noord-Hollandse Uitgevers, Amsterdam, 1953. 347 pp. Illus. + plates.

Linear Operators. Richard G. Cooke. Macmillan, London; St Martin's Press, New York, 1953. 454 pp. \$10.

Nuclear Moments. Reprinted in part from *Experimental Nuclear Physics*, Vol. I, E. Segré, Ed. Norman F. Ramsey. Wiley, New York; Chapman & Hall, London, 1953. 169 pp. Illus. \$5.

Industrial Electronics. Introduction to modern industrial electronic practice. R. Kretzmann. Philip's Technical Library, Eindhoven, Netherlands, 1953. U.S. distr.: Elsevier Press, Houston. 236 pp. Illus.

Cationic Polymerisation and Related Complexes. Proceedings of conference held at University College of North Staffordshire, March 24-26, 1952. P. H. Plesch, Ed. Academic Press, New York, 1953. 166 pp. Illus. \$4.

Silicified Middle Ordovician Trilobites. H. B. Whittington and W. R. Evitt, II. Geological Society of America, New York, 1953. 137 pp. Illus. + plates.

Advances in Carbohydrate Chemistry. Vol. 8. Claude S. Hudson and Melville L. Wolfrom, Eds. Academic Press, New York, 1953. 408 pp. Illus. \$10.

Dimensional Methods and Their Applications. C. M. Focken. Edward Arnold, London; St Martin's Press, New York, 1953. 224 pp. \$6.

Introduction to a Study of Mechanical Vibration. G. W. Van Santen. Philip's Technical Library, Eindhoven, Netherlands, 1953. U.S. distr.: Elsevier Press, Houston. 296 pp. Illus.

Crystal Growth and Dislocations. Ajit Ram Verma. Academic Press, New York; Butterworths, London, 1953. 182 pp. Illus. \$5.

Les Groupes Sanguins Chez les Animaux. Individualités sanguine et tissulaire. R. Dujarric de la Rivière and A. Eyquem. Collection de L'Institut Pasteur. Éditions Médicales Flammarion, Paris, 1953. 407 pp. Illus. 3275 frs.

Rutley's Elements of Mineralogy. ed. 25. H. H. Read. Interscience, New York, 1947. 525 pp. Illus. \$2.50.

Shock and Circulatory Homeostasis. Transactions of the Second Conference Oct. 19-21, 1952, Princeton, N.J. Harold D. Green, Ed. Josiah Macy, Jr., Foundation, New York, 1953.

Planning Guide for Radiologic Installations. Committee on Planning of Radiologic Installations of the Commission on Public Relations of the American College of Radiology, Wendell G. Scott, Chairman. Year Book Pubs., Chicago, 1953. xvi + 336 pp. Illus. \$8.

Simuliidae of the Ethiopian Region. Paul Freeman and Botha de Meillon. British Museum (Natural History), London, 1953. 224 pp. Illus. £2 10s.

Das Elektrische Herzbild. Die Grundlagen Eines Neuen Elektrokardiographischen Verfahrens. Wilhelm Ernsthausen. Verlag Herman Rinn, München, Germany, 1953. 231 pp. Illus. DM 48.

The Sardinian Project. An experiment in the eradication of an indigenous malarious vector. John A. Logan. Johns Hopkins Press, Baltimore, 1953. 415 pp. Illus + plates \$7.50.

Quantitative Organic Analysis via Functional Groups. ed. 2. Sidney Siggia. Wiley, New York; Chapman & Hall, London, 1954. 227 pp. Illus. \$5.

Miscellaneous Publications

- Earthquake Intensity and Related Ground Motion.** Frank Neumann. Univ. of Washington Press, Seattle 5, 1954. 94 pp. Illus. \$1.50.
- Investigation of Electron Tube Reliability in Military Applications.** Gen. Rpt. No. 1. Aeronautical Radio, Inc., 1523 L St., NW, Washington 5, D.C., 1954. 97 pp. Illus. 50¢.
- The Iroquois Eagle Dance an Offshoot of the Calumet Dance.** Smithsonian Institution, Bur. of American Ethnology Bull. 156, 1953. William N. Fenton; with **An Analysis of the Iroquois Eagle Dance and Songs** by Gertrude Prokosch Kurath (Order from Supt. of Documents, GPO, Washington 25, D.C.). 324 pp. Illus. + plates. \$1.50.
- List of Research Workers—Agriculture, Animal Health, and Forestry in the British Commonwealth, 1953** (Including a list of such workers in the Anglo-Egyptian Sudan and the Republic of Ireland). Commonwealth Agricultural Bureaux, Farnham Royal, Bucks, England, 1953. 474 pp. \$2.10.
- The Macrotriton Problem.** Vol. 2, No. 4. W. J. Rees. 33 pp. Illus. 12s. **Hearing in Cetaceans.** Vol. 2, No. 5. F. C. Fraser and P. E. Purves. 13 pp. Illus. 4s. British Museum (Natural History), London, 1954.
- Man in Society.** Preface to sociology and the social sciences. George Simpson. Doubleday & Co., Garden City, N.Y., 1954. 90 pp. 95¢.
- Memórias do Instituto Butantan, 1952.** Vol. XXIV, No. 2 (In Spanish and English). Instituto Butantan, São Paulo, Brasil, 1953. 316 pp. Illus. + plates.
- Metallurgy and Ceramics.** Pt. 1. A bibliography of selected AEC reports of interest to industry. TID-3050. Industrial Information Branch, U.S. Atomic Energy Commission, Washington 25, D.C., 1953. 38 pp. Free.
- The National Research Council (Canada) Review, 1953.** NRC No. 3034. National Research Council, Ottawa, 1953. 244 pp. + plates. 75¢.
- A New and Primitive Early Oligocene Horse from Trans-Pecos Texas.** Fieldiana. Vol. 10, No. 15. Paul O. McGrew. 5 pp. Illus. 15¢. **A New Fish from North Borneo, Genus Tetraodon.** Vol. 34, No. 11. Robert F. Inger. 4 pp. Illus. 15¢. **A New Frog from Panama, Dendrobates galindoi.** Vol. 34, No. 15. Harold Trapido. 7 pp. Illus. 20¢. Chicago Natural History Museum, Chicago, 1953.
- Oak Ridge Institute of Nuclear Studies, Seventh Annual Report, June, 30, 1953.** U.S. Atomic Energy Commission, Oak Ridge, Tenn., 1953. 61 pp. Illus.
- Organizations Engaged in Scientific Research on an International Scale in the Pacific.** Pacific Science Assoc., Honolulu, Hawaii, 1953. 32 pp.
- The Palaeontological Base of the Subdivision of the Pleistocene in the Netherlands.** Vol. XX, No. 2. I. M. van der Vlerk and F. Florschütz. North-Holland Pub. Co., Amsterdam, 1953. 58 pp. Illus. + plates.
- A Pest of Coconut Palms in Portuguese East Africa and Two New Representatives of the Genus Hypotrachala (Lepidoptera: Lasiocampidae) from the Belgian Congo.** Entomology, Vol. 3, No. 2. W. H. T. Tams. British Museum (Natural History), London, 1953. 75 pp. Illus. + plates. 4s.
- The Photographic Perseid Meteors.** Harvard Rpt. Ser. II-47. Frances W. Wright and Fred L. Whipple. Harvard College Observatory, Cambridge 38, Mass., 1953. 38 pp. Illus.
- Parking as a Factor in Business.** Pt. 2: **Economic Relationships of Parking to Business in Seattle Metropolitan Area.** Louis C. Wagner. 37 pp. Illus. Pt. 3: **Relationship between Downtown Automobile-Parking Conditions and Retail-Business Decentralization.** William J. Watkins. 20 pp. Illus. Pt. 4: **Central City Property Values in San Francisco and Oakland.** Paul F. Wendt. 41 pp. + map. Highway Research Board, National Academy of Sciences, Washington 25, D.C., 1953.
- Pilot Plant Catalytic Gasification of Hydrocarbons.** Res. Bull. 6. C. H. Riesz *et al.* 44 pp. Illus. \$5. **Viscosities of Natural Gas Components and Mixtures.** Bull. 23. N. L. Carr. 59 pp. Illus. \$5. Institute of Gas Technology, Chicago 16, 1953.
- The Pre-Adolescent Exceptional Child.** Proceedings of the 35th Conference of the Child Research Clinic of The Woods Schools. The Woods Schools, Langhorne, Pa., 1953. 66 pp. Free.
- Preliminary Planning for Vegetable Dehydration.** AIC 356. Clyde L. Rasmussen and W. Lawrence Shaw. Western Regional Research Laboratory, USDA, Albany 6, Calif., 1953. 26 pp.
- Rat Quality a Consideration of Heredity, Diet and Disease.** Proceedings of the symposium held at Columbia University, 1952. W. E. Heston *et al.* National Vitamin Foundation, New York 22, 1953. 138 pp. Illus. \$2.50.
- Report of the Castings Research Laboratory.** No. 4. Ichiro Iitaka, Ed. Castings Research Laboratory, Waseda University, Tokyo, 1953. 70 pp. Illus.
- Scientific Research and Development in American Industry: A Study of Manpower and Costs.** Bur. of Labor Statistics Bull. No. 1148. Helen Wood, Robert W. Cain, and Joseph H. Schuster (Order from Supt. of Documents, GPO, Washington 2, D.C.), 1953. 106 pp. Illus. 50¢.
- Slagging of Navy Boiler Refractories.** Bull. No. 58. William C. Bell, John R. Hart, and Irving W. Gower. Dept. of Engineering Research, North Carolina State College, Raleigh, 1953. 46 pp. Illus. \$1.
- Standard X-ray Diffraction Powder Patterns.** NBS Circ. 539, Vol. I, 1953. Howard E. Swanson and Eleanor Tatge (Order from Supt. of Documents, GPO, Washington 25, D.C.). 95 pp. 45¢.
- Symposium on Chemical Analysis of Inorganic Solids by Means of the Mass Spectrometer.** ASTM Spec. Tech. Pub. No. 149, 1953. 35 pp. Illus. \$1.25. **Symposium on Plastics Testing—Present and Future.** ASTM Spec. Tech. Pub. No. 132, 1953. 71 pp. Illus. \$2. American Society for Testing Materials, Philadelphia 3.
- Symposium on Stress, March 16–18, 1953.** Sponsored by Division of Natural Sciences, NRC, and Army Medical Service Graduate School. Army Medical Service Graduate School, Walter Reed Army Medical Center, Washington, D.C., 1953. 332 pp. Illus.
- Synopsis of Medical Parasitology.** V. E. Brown. The author, c/o Marquette Univ. Press, Milwaukee, 1953. 109 pp. Illus. \$3.50.
- The Theoretical Behavior of an Inelastic Material Model.** Bull. of the V.P.I., Eng. Expt. Station Ser. No. 85. Dan Frederick and M. A. Garcia. Virginia Polytechnic Institute, Blacksburg, 1953. 32 pp. Illus. 25¢.
- U.S. Atomic Energy Commission Fifteenth Semiannual Report.** U.S. Atomic Energy Commission, Washington 25, D.C., 1954. 151 pp. Illus.
- Vitamin Manual.** Upjohn Co., Kalamazoo, Mich., 1953. 90 pp. Illus. incl. color plates.

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Meetings & Conferences

July

- 2-5. Astronomical League, Madison, Wis. (G. C. Scholz, 166 Mason Hall Apts., Alexandria, Va.)
- 6-9. American Home Economics Assoc., San Francisco, Calif. (Miss M. Horton, 1600 20 St. NW, Washington, D.C.)
- 7-10. American Physical Soc., Seattle, Wash. (J. Kaplan, Univ. of California, Los Angeles.)
- 8-9. International Union of Pure and Applied Physics, 8th, London, Eng. (H. A. Barton, 57 E. 55 St., New York 22.)
- 8-12. Conv. on Industrial Electronics, Oxford, Eng. (Sec., Brit. I.R.E., 9 Bedford Sq., London, W.C.1.)
- 10-15. Latin American Cong. on Gynecology and Obstetrics, 2nd, São Paulo, Brazil. (J. Ramos, Av. Brigadeiro Luiz Antonio, 278-80, São Paulo.)
- 11-14. American Soc. of Refrigerating Engineers, Seattle, Wash. (M. C. Turpin, 234 5 Ave., New York 1.)
- 13-17. Conf. on Defects in Crystalline Solids, Bristol, Eng. (H. A. Barton, 57 E. 55 St., New York 22.)
- 13-17. Cong. on Experimental and Theoretical Nuclear Physics, Glasgow, Scotland. (H. A. Barton, 57 E. 55 St., New York 22.)
- 15-17. International Symposium on Solid Particles in Astronomical Objects, Liège, Belgium. (P. Th. Oosterhoff, Leiden Observatory, Leiden, Netherlands.)
- 15-21. Pan American Cong. of Child Welfare and Pediatrics, 4th, São Paulo, Brazil. (J. Ramos, Av. Brigadeiro Luiz Antonio 278-80, São Paulo.)
- 16-21. International Conf. on Electron Microscopy, London, Eng. (F. W. Cuckow, Royal Cancer Hospital, London, SW 3.)
- 17-22. Latin American Cong. on Mental Health, 1st, São Paulo, Brazil. (A. C. Pacheco e Silva, Av. Brigadeiro Luiz Antonio 278-80, São Paulo.)
- 19-23. International Cong. of Gerontology, 3rd, London and Oxford, Eng. (Mrs. A. Humpage, Tavistock Square, London, WC 1.)
- 19-24. Pan American Cong. on Gastroenterology, 5th, São Paulo, Brazil. (J. Ramos, Av. Brigadeiro Luiz Antonio 278-80, São Paulo.)
- 19-31. French Assoc. for the Advancement of Science, Poitiers, France. (FAAS, 28 Rue Serpente, Paris 8.)
- 20-24. International Conf. on Thrombosis and Embolism, Basel, Switzerland. (W. Merz, Gynecological Clinic, Univ. of Basel.)
- 21-24. International Cong. of Medical Psychotherapy, Zurich, Switzerland. (H. K. Fiers-Monnier, Hauptstrasse 8, Kreuzlingen, Switzerland.)
- 21-23. International Cong. of Crystallography, 3rd, Paris, France. (J. D. H. Donnay, Johns Hopkins Univ., Baltimore, Md.)
- 23-29. International Cancer Cong., 6th, São Paulo, Brazil. (H. L. Stewart, National Cancer Inst., Bethesda, Md.)
- 25-31. Inter-American Cong. of Sanitary Engineering, 4th, São Paulo, Brazil. (L. Nogueira, Caixa Postal 8099, São Paulo.)
- 26-31. International Cong. of Gynecology and Obstetrics, Geneva, Switzerland. (W. Geisendorf, Maternité, Hôpital Cantonal, Geneva.)
- 27-28. International Union of Theoretical and Applied Mechanics, 4th, Brussels, Belgium. (H. L. Dryden, 1724 F St. NW, Washington 25, D.C.)

(See the May 21st issue for summer meeting lists.)