

Book Reviews

The chemistry and technology of enzymes. Henry Tauber. New York: John Wiley; London: Chapman & Hall, 1949. Pp. viii + 550. (Illustrated.) \$7.50.

This volume is an expansion of the author's book *Enzyme technology*, published in 1943. The contents are divided into two parts: Part I, The Chemistry of Enzymes; Part II, The Technology of Enzymes. The addition of the fundamental material in Part I has increased materially the value of the book, and the inclusion of a number of the processes developed during the war has strengthened Part II. An occasional error such as *Streptococcus* for *Staphylococcus aureus*, while irritating to bacteriologists, in no manner detracts from the value of the work.

MALCOLM H. SOULE

University of Michigan

Elementary statistical analysis. S. S. Wilks. Princeton, N. J.: Princeton Univ. Press, 1948. Pp. xi + 284. \$2.50.

This book is intended to be used as a text in a one-semester introductory course in statistics. While a knowledge of calculus is assumed, it is used only rarely: an acquaintance with elementary algebra will suffice for the reading of all but a few sections of the book, and these could be omitted without serious loss. It is clearly and lucidly written, and numerous examples are provided in the text to illustrate the principles brought out. The aim has been to make a few basic concepts entirely clear, rather than to cover a wide field.

The viewpoint is adopted which regards statistical analysis as a methodological tool of scientific research, rather than the traditional idea, still too common in elementary texts, that its main object is merely to give a

summary description of a set of data. Thus, the role of probability is emphasized; and much attention is given to the problem of sampling, which is that of making inferences from a sample concerning the characteristics of the population from which it was drawn. It is refreshing to find that, by the introduction of confidence limits, the author has brought into his treatment of this subject a definiteness too often lacking in beginning textbooks.

THOMAS N. E. GREVILLE

Federal Security Agency
Public Health Service

Introduction to physics. (2nd. ed.) Harley Howe. New York-London: McGraw-Hill, 1948. Pp. xii + 599. (Illustrated.) \$4.50.

This nontechnical book on physics is intended for students in the liberal arts, premedical courses, and agriculture. It embraces the usual classical subdivisions of the subject. Three chapters devoted to topics associated with modern physics are introduced before the final section on optics.

The author states in the preface that a knowledge of elementary algebra and plane geometry is sufficient mathematical background for an understanding of the text. This level is consistently maintained. There are few equations that cannot be understood from the principles elucidated here.

Some users of the book will want to supplement it with additional classroom material. This is particularly true of the section on rotational motion, which seems to be unnecessarily brief.

All in all, the book is a good one. It should prove an understandable and appropriate text for use in a course designed to fill the needs of the student who wants a fundamental course in physics to supplement his major study.

WALTER M. NIELSEN

Duke University

NEWS and Notes

Raymond E. Masters, of the Westinghouse Corporation's East Pittsburgh medical staff, has been appointed medical director of the corporation's recently formed Atomic Power Division at Bettis Field, near Pittsburgh.

Sam Granick, of the Rockefeller Institute for Medical Research, will deliver the eighth Harvey Lecture of the current series at the New York

Academy of Medicine on May 19. His subject will be "Heme and Chlorophyll."

Norbert Wiener, professor of mathematics, Massachusetts Institute of Technology, will speak on "Cybernetics" at the Howard University College of Medicine, Washington, D. C., May 12, at 8:30 p.m. The occasion is the second annual Howard University Sigma Xi lecture.

Visitors to U. S.

Gösta Elfving, of the University of Helsingfors, Sweden, has been appointed visiting professor of mathematical statistics for the academic years 1949-51 at Cornell University.

Corneille Heymans, professor of pharmacology of the University of Ghent, Belgium, is visiting professor of pharmacology at Emory University School of Medicine, Georgia, during the spring quarter.

Robert Broom, South African paleontologist, recently visited the University of California at Berkeley, where he lectured on the significance of man-apes in human ancestry.

E. Haeggblund and **H. W. Giertz**, of the Cellulose Industriens Central Laboratorium, Stockholm, Sweden, will address the Symposium of Wood Chemistry, Polytechnic Institute of Brooklyn, New York, on May 7.

Fellowship

The University of Cincinnati has announced the establishment of a Texaco fellowship in industrial medicine. The grant will be for a two-year period starting July 1, and leads to the degree of doctor of industrial medicine. Candidates interested in this training opportunity may write to Robert A. Kehoe, Director, Institute of Industrial Health, University of Cincinnati.

Colleges and Universities

Two lectures are scheduled at the University of Vermont in Burlington. T. M. Sonneborn of the Department of Zoology, University of Indiana, will speak May 5 on the physical basis of cell transformation. On June 2, C. D. Rhoads, of the Memorial Hospital and Sloan-Kettering Institute for Cancer Research, will speak on the use of isotopes in cancer research and treatment.

The Montreal Neurological Institute of McGill University will hold its 14th Hughlings Jackson Memorial Lecture on May 13. The guest speaker will be H. Cuthbert Bazett, professor of physiology at the School of Medicine, University of Pennsylvania, who will speak on "Blood Temperature in Man and Its Control."

The University of Illinois' new \$400,000 Aero Medical and Physical Environment Laboratory was officially occupied on April 11. The staff consists of A. C. Ivy, director; John P. Marbarger, research director; Victor Guillemain, Jr., biophysicist; and M. K. Fahnestock, engineering director. Research studies are planned on physical environmental factors in healthy and diseased human beings, and further studies in aviation medicine.

All Harvard University freshmen will take at least one course in General Education, beginning this fall, and by 1951 all undergraduate students will be required to take elementary courses in three fields of learning: the humanities, the social sciences, and the natural sciences. Most students will select these three courses from the 12 or more elementary courses offered in General Edu-

cation. During his four years, each student must take at least six courses outside the department in which he is concentrating. To carry out the new program, Philippe Le Corbeiller has been appointed professor in General Education, and John Sawyer, I. Bernard Cohen, Gerald J. Holton, Daniel H. H. Ingalls, and Richard N. Frye have been appointed assistant professors.

Summer Programs

The Institute of Polymer Research and the Division of Applied Physics of the Polytechnic Institute of Brooklyn announce the sixth annual series of summer laboratory courses: Industrial Applications of X-Ray Diffraction, to be held June 6-17 (attendance limited to 20); Advanced X-Ray Diffraction, June 27-July 2 (attendance limited to 10); Molecular Weight Determination of Polymers, June 27-July 1 (attendance limited to 12); and Polymerization Techniques, July 25-29 (attendance limited to 12). Inquiries should be addressed to: Professor I. Fankuchen, Division of Applied Physics, Institute of Polymer Research, Polytechnic Institute of Brooklyn, 85 Livingston Street, Brooklyn 2, New York.

The American Oil Chemists' Society and the University of Illinois are sponsoring a course in the production and processing of edible fats, at Urbana, Illinois, August 15-19. Lectures will be held in the morning, symposia in the afternoon and evening. A preliminary outline of the program was published in the March *Journal of the American Oil Chemists' Society*.

The University of California Medical School announces a postgraduate course in the medical aspects of nuclear energy, August 29-September 3, at the Medical Center, San Francisco. Joseph G. Hamilton, director of the Crocker Laboratory, University of California, will be chairman of the course. A detailed program will be mailed upon request addressed to: Stacy R. Mettier, Head of Postgraduate Instruction, Medical Extension, University of California Medical Center, San Francisco 22.

Meetings and Elections

The American Society of Mechanical Engineers will hold its spring meeting in New London, Connecticut, May 2-4. Papers will be presented on nuclear energy, materials handling, power, production engineering, management, machine design, education, metals engineering, heat transfer, aviation, fuels, textiles, gas turbines, safety, process industries, and underwater craft, in a program of 20 technical sessions. Rear Admiral Fife, Commander of the Submarine Force, U. S. Atlantic Fleet, and James M. Todd, ASME president, will speak on "The Road to Peace" at the Tuesday evening banquet at the Mohican Hotel, headquarters for the meeting.

Emil Artin, of the Department of Mathematics, Princeton University, is presenting results of his investigations on the Theory of Braids, as a Sigma Xi national lecturer at the following institutions: May 5—Corning Glass Works, Corning, New York; May 6—University of Rochester, New York; May 11—University of Michigan, Ann Arbor; May 13—McGill University Montreal; May 17—University of Massachusetts, Amherst; May 18—Yale University, New Haven, Connecticut.

A Symposium on Fine Particles and Resolution will be held June 9-11, at the Stevens Hotel, Chicago, under the sponsorship of Armour Research Foundation of the Illinois Institute of Technology, and the Physics Department of the institute. The symposium will be composed of four sessions. The session topics and chairman are: "Light Scattering"—P. J. Debye, Cornell University; "Resolution"—C. W. Mason, Cornell University; "Formation and Size Distribution of Dispersoids"—H. F. Mark, Brooklyn Polytechnical Institute; and "Microscopy of Fine Particles"—Robley C. Williams, University of Michigan.

A group of experts will present formal papers or semiformal remarks at each session; Discussion will be directed by the session chairman. In addition to the regular sessions there will be instrument displays and a photographic exhibit including electron and light micrographs

dealing with subjects that are related to the symposium topics.

The general chairmen for the symposium are W. C. McCrone and C. F. Tufts; further information may be had by writing them at the Armour Research Foundation of Illinois Institute of Technology, 35 West 33rd Street, Chicago 16.

Questions for general discussion at the sessions will be considered by the session chairmen if the questions are submitted in writing prior to the day the symposium convenes. Such questions should be addressed to the attention of the general chairmen. Persons wishing to participate in the photographic exhibit should submit their material before June 6. Prints should be sent to the attention of the general chairmen.

The symposium is an outgrowth of the highly successful Symposium on Electron and Light Microscopy (*Science*, June 4, 1948) which was held in Chicago last year and attended by more than 250 scientists.

The Pacific Division of the AAAS will hold its 30th annual meeting at the University of British Columbia, Vancouver, June 13-18. Registration will open Monday morning at 9:00. The first general session, to be held Monday afternoon, will be the divisional symposium on "Anthropology and Its Applications to Society." On Tuesday morning there will be a symposium, sponsored by the Pacific Science Board of the U. S. National Research Council on "Research Plans for the Pacific Area, with Special Reference to the Seventh Pacific Science Congress." L. S. Cressman, president of the Pacific Division, will speak on "Early Man in the Pacific Northwest" Tuesday evening. Nineteen associated or affiliated societies will participate in the meeting. G. M. Shrum is chairman of the Committee on Registration and Information. Inquiries may be addressed to him at the University of British Columbia, Department of Physics, Vancouver, B. C.

The United Nations Scientific Conference on the Conservation and Utilization of Resources will open its three-week session at Lake Success, New York, on August 17. This will be the United Nations'

first step toward mobilizing science for the purpose of raising the world's standard of living. The UNSCOUR has asked 650 scientists to prepare papers on subjects ranging from projects for producing synthetic fuels to harnessing the wind for electric power.

The Roscoe B. Jackson Memorial Laboratory will commemorate its 20th anniversary this year. The theme of the commemoration will be "Twenty Years of Research at the Jackson Laboratory," and a series of papers will be given during the summer session in honor of C. C. Little, founder, and director since 1929. There will be a reunion of friends of the laboratory, students, summer investigators, and staff members August 18th to 21st. Since some records were lost in the fire of 1947, all persons who do not receive invitations and who wish to attend are asked to write to the Chairman, Jackson Laboratory 20th Commemoration, P. O. Box 78, Bar Harbor, Maine.

The Brazilian Society for the Advancement of Science (SBPC) has been established with headquarters in São Paulo and will publish *Ciência e Cultura* as its official periodical. The first annual meeting is planned for next October at Campinas, São Paulo. Correspondence should be addressed to the Sociedade Brasileira para o Progresso da Ciência, C. P. 2926, São Paulo, Brasil.

The American Committee for the Seventh International Congress for Cell Biology held a meeting at Philadelphia on April 13 to consider plans for the Congress which is to be held at Yale University September 4-8, 1950. The honorary chairman of the committee is R. G. Harrison of the Osborn Zoological Laboratory at Yale; the president of the congress is J. Runnstrom, of Sweden. A fund of \$50,000 is planned, for use largely in bringing distinguished scientists to the U. S. to participate in the congress.

Deaths

Charles Taylor Vorhies, 69, head of the Department of Entomology and Economic Zoology, University of Arizona, died suddenly March 10 in Washington, D. C. while attending

meetings of the National Wildlife Federation.

Willard H. Dow, 52, chemical engineer and president of the Dow Chemical Company, died March 31 in a plane crash at London, Ontario.

Sir Hugh S. Gladstone, 71, ornithologist and author of many books on bird life, died April 5 in Thornhill, Scotland.

Sydney Ball, 71, mining geologist and consulting mineralogist to the U. S. Bureau of Mines, died in New York City on April 8. In 1907 Mr. Ball headed an expedition that opened up one of the world's largest diamond mines in the Belgian Congo.

Eugene H. Pool, 74, consulting surgeon and former professor of clinical surgery at the Cornell University Medical College, died April 9. Dr. Pool had also served as president of the New York Academy of Medicine and the American College of Physicians and Surgeons.

The Economic Cooperation Administration has financed the purchase of \$9,000,000 worth of streptomycin by Marshall Plan countries. It is also financing the acquisition of American equipment worth \$500,000 for reconstructing two streptomycin-producing plants in France.

Life insurance companies of the United States and Canada will contribute \$680,000 during the coming year for research in heart disease. Of this amount, \$585,300 has been awarded as grants-in-aid to 35 universities and research centers. The remaining \$94,700 was allocated for 27 research fellowships in the field of heart disease.

Make Plans for—

Symposium on Luminescence, sponsored by the Electronics Division, Electrochemical Society, May 5-7, Philadelphia, Pennsylvania.

Mathematical Association of America, annual meeting of the Indiana Section, May 7, University of Notre Dame, South Bend.

Indiana Academy of Science, annual meeting, May 13-14, Clifty Falls State Park, Madison.