

sonal flavor. By contrast, this book on Illinois flora is quite impersonal and is presumably based on the examination of a larger number of specimens. In terms of kinds of plants in the two states, the figures for Indiana are 141 families, 690 genera, and 2140 species (16 percent introduced); for Illinois, 156 families, 785 genera, and 2450 species (approximately 25 percent introduced). So far as one may judge by a hasty check, the figures are fairly comparable.

The authors remark that "The science of taxonomy consists also of intensive studies of the plants of a definite area for the purpose of clarifying our knowledge of these plants including attempts to shed light on the origin and evolution of species and their inter-relations with each other." Of the 18 nomenclatural combinations proposed, it is interesting to note that 11 are putative hybrids, perhaps suggesting a trend in future taxonomic studies for which this valuable book will form a solid basis.

LINCOLN CONSTANCE

Department of Botany,  
University of California, Berkeley

## New Books

*Atomic Physics.* An atomic description of physical phenomena. Gaylord P. Harnwell and William E. Stephens. McGraw-Hill, New York, 1955. 401 pp. \$8.

*Traité de la Connaissance.* Louis Trougier. Gauthier-Villars, Paris, 1955. 450 pp. \$6.48.

*Technical Publications.* Their purpose, preparation, and production. C. Baker. Wiley, New York, 1955. 302 pp. \$6.

*Jet Engine Manual.* E. Mangham and A. Peace. Philosophical Library, New York 16, 1955. 133 pp. \$3.75.

*Environmental Hygiene.* vol. II of *Preventive Medicine in World War II.* Ebbe Curtis Hoff., Ed. Historical Unit, Army Medical Service, Washington, 1955 (Order from Supt. of Documents, GPO, Washington 25). 404 pp. \$3.50.

*Hydrogen Peroxide.* Walter C. Schumb, Charles N. Satterfield, and Ralph L. Wentworth. Reinhold, New York; Chapman & Hall, London, 1955. 759 pp. \$16.50.

*International Pharmacopoeia.* vol. II. World Health Organization, Geneva, 1955. 350 pp. \$6.75.

*Astrophysical Quantities.* C. W. Allen. Athlone Press, London, 1955 (Distributed in U.S. by John de Graff, Inc., New York 10). 263 pp. \$10.

*Microbiology.* Florene C. Kelly and K. Eileen Hite. Appleton-Century-Crofts, New York, ed. 2, 1955. 615 pp.

*Ultrasonic Engineering with Particular Reference to High Power Applications.* Alan E. Crawford. Academic Press, New York; Butterworths, London, 1955. 344 pp. \$8.

*Introduction to Virology.* Gilbert Dall-dorf. Thomas, Springfield, Ill., 1955. 102 pp. \$3.50.

*Treatise on Invertebrate Paleontology.* part V. Graptolithina with sections on Entomopneusta and Pterobranchia. Raymond C. Moore, Ed. Geological Soc. of America, New York, and Univ. of Kansas Press, Lawrence, 1955. 101 pp. \$3.

*An Elementary Textbook of Psychoanalysis.* Charles Brenner. International Universities Press, New York, 1955. 219 pp. \$4.

*Proceedings of the Conference on Latin-American Geology.* Held 29-30 March 1954; co-sponsored by the Department of Geology and the Institute of Latin-American Studies, University of Texas. Fred M. Bullard, Ed. Univ. of Texas, Austin, 1955. 99 pp.

*Basic Mathematics for Science and Engineering.* Paul G. Andres, Hugh J. Miser, and Haim Reingold. Wiley, New York; Chapman & Hall, London, 1955 (A revision of *Basic Mathematics for Engineers*, 1944). 846 pp. \$6.75.

*Bibliography and Index of Geology Exclusive of North America.* vol. 19. Marie Siegrist et al. Geological Soc. of America, New York, 1955. 689 pp.

*Research Films in Biology, Anthropology, Psychology, and Medicine.* Anthony R. Michaelis. Academic Press, New York, 1955. 490 pp. \$10.

*Group Processes.* Transactions of the first conference on group processes, 26-30 September 1954, Ithaca, N.Y. Bertram Schaffner, Ed. Josiah Macy, Jr. Foundation, New York, 1955. 334 pp. \$5.50.

*Small-Angle Scattering of X-Rays.* André Guinier and Gerard Fournet. Trans. by Christopher B. Walker. Wiley, New York; Chapman & Hall, London, 1955. 268 pp. \$7.50.

*Introduction to Modern Physics.* F. K. Richtmyer, E. H. Kennard, and T. Lauritsen. McGraw-Hill, New York, ed. 5, 1955. 666 pp. \$8.50.

*The Atomic Nucleus.* Robley D. Evans. McGraw-Hill, New York, 1955. 972 pp. \$14.50.

*Organic Insecticides.* Their chemistry and mode of action. Robert L. Metcalf. Interscience, New York-London, 1955. 392 pp. \$8.50.

*Bibliography of Monolingual Scientific and Technical Glossaries.* vol. I, *National Standards.* Eugen Wüster. UNESCO, Paris, 1955 (Order from Columbia Univ. Press, New York 27). 219 pp. \$2.50.

*The Value of Judgement.* W. D. Lamont. Philosophical Library, New York, 1955. 335 pp. \$6.

*The World of Bees.* Gilbert Nixon. Philosophical Library, New York, 1955. 214 pp. \$4.75.

*Gas Turbines and Jet Propulsion.* G. Geoffrey Smith; revised and enlarged by F. C. Sheffield. Iliffe, London, and Philosophical Library, New York, ed. 6, 1955. 412 pp. \$15.

*European Architecture in the Twentieth Century.* vol. 2, pt. 3, *The Era of Functionalism, 1924-1933.* Arnold Whittick. Philosophical Library, New York 16, 1955. 271 pp. \$10.

*A Course in Modern Techniques of Organic Chemistry.* R. P. Linstead, J. A. Elvidge, Margaret Whalley. Academic Press, New York; Butterworths, London, 1955. 190 pp. \$5.

## Miscellaneous Publications

(Inquiries concerning these publications should be addressed, not to Science, but to the publisher or agency sponsoring the publication.)

*Opinions of the Committee on Professional Ethics.* With the code of professional ethics annotated and an analysis of the functions of the committee. National Education Assoc., Washington, 1955. 72 pp. \$0.25.

*Indian Woods for Battery Separators.* Indian Forest Bull. No. 184. M. A. Rehman, Jai Kishen, and O. P. Chawla. Manager of Pubs., Govt. of India Press, New Delhi, 1955. 18 pp. 2 s.

*The Atom in Our Hands.* Union Carbide and Carbon Corp., New York 17, 1955. 40 pp.

*American Heart Association, Proceedings of the 28th Scientific Session.* 22-24 October 1955. The Association, New York, 1955. 144 pp.

*Humanistic-Social Stem of Engineering Education.* A classified bibliography. Cooper Union Bull., Engineering and Science No. 33. Compiled by the Cooper Union Library. Cooper Union for the Advancement of Science and Art, New York, 1955. 56 pp. \$0.50.

*Massachusetts Institute of Technology, The Reports of the President and of the Deans of the Schools for the Year Ending October 1, 1955.* Massachusetts Inst. of Technology, Cambridge, 1955. 161 pp.

*What Good Nursing Means to You.* Public Affairs Pamph. No. 60A. Susie Berg Waldman. Public Affairs Committee, New York, 1955. 27 pp. \$0.25.

*Proceedings of the 5th Meeting of the Indo-Pacific Fisheries Council.* Held at Bangkok, Thailand, 22 January-5 February 1954. Sections II and III. The Council, Bangkok, 1955. 114 pp. \$1.

*Symposium on Marine and Fresh-Water Plankton in the Indo-Pacific.* Held at Bangkok, Thailand, 25-26 January 1954. Indo-Pacific Fisheries Council, Bangkok, 1954. 111 pp. \$1.

*The Diagnosis and Treatment of Haemophilia and Its Related Conditions.* Medical Research Council Memo. No. 32. R. G. MacFarland and Rosemary Biggs. Her Majesty's Stationery Office, London, 1955. 23 pp. \$0.45.

*Dry Whole Milk.* A symposium sponsored by the Quartermaster Food and Container Institute for the Armed Forces Quartermaster Research and Development Command, U.S. Army Quartermaster Corps. Oriental Institute, Univ. of Chicago, 22-23 September 1954. J. M. McIntire, W. K. Stone, and Martin S. Peterson, Eds. National Acad. of Sciences-National Research Council, Washington, 1955 (Order from Quartermaster Food and Container Inst. for the Armed Forces, 1819 West Pershing Rd., Chicago 9, Ill.). 194 pp.

*Laboratory and Field Tests of Sound-ing Leads.* Tech. Memo. No. 54. 42 pp. *A Study of Sediment Sorting by Waves Shoaling on a Plane Beach.* Tech. Memo. No. 63. 83 pp. *Laboratory Data on Wave Run-Up and Over-Topping on Shore Structures.* Tech. Memo. No. 64. 32 pp. Beach Erosion Bd., Office of the Chief of Engineers, Dept. of the Army, 1955.