

Avian Biology.—Donald S. Farner and James R. King, eds. 1973. Vol. II. Academic Press, New York. 612 p. \$32.00. This is the second volume in a review treatise on the biology of birds, a descendent of A. J. Marshall's *Biology and Comparative Physiology of Birds* with extensive expansion and revision. The aim of the editors is to present an assessment of selected topics which are of interest both to those in specific fields of avian biology and, more broadly, to those interested in the application of avian investigations to general concepts in biology. The authors present a review of established facts as well as recent advances in each discipline. Volume II, with 9 chapters by 11 contributors, deals with avian anatomy and physiology. The first three chapters are concerned with aspects of molt: P. Stettenheim's chapter on the integument deals principally with feathers, pterylae, and the associated skin and musculature; patterns of the molt are discussed by R. S. Palmer with an emphasis on evolutionary aspects; and R. B. Payne has written a most comprehensive chapter on mechanisms and control of molt. Characteristics and adaptations of the avian blood and cardiovascular system are discussed by D. R. Jones and K. Johansen. The late R. C. Lasiewski has presented a thorough review of avian respiratory function emphasizing studies on birds under a variety of environmental situations. Digestion and nutrition are covered in two chapters: V. Ziswiler and D. S. Farner discuss the digestive process at each of the major digestive sites of the body, while H. Fischer's chapter covers avian nutrient requirements and the nutritive value of avian foods. In his chapter on osmoregulation and excretion, V. H. Shoemaker discusses the structure and function of the salt gland as well as that of the kidney and postrenal areas. Under the broad topic of intermediary metabolism, R. L. Hazelwood reviews current work in avian metabolic homeostasis under a variety of conditions from reproduction to migration.

Birds Protected in Canada.—1972. Canadian Wildlife Service Occasional Paper No. 1, 3rd Edition. Cat. No. CW69-1/1. 16 p. (paperbound). This booklet lists the AOU number and the common name of those birds occurring in Canada that are protected by the Migratory Birds Treaty between the United States and Canada.

THE BULLETIN BOARD

WANTED—To exchange birdskins from South America, Africa, Phillipines for small series of North American birds, particularly from western and southwestern areas. List of exotic material available on request. D. M. Scott, Department of Zoology, University of Western Ontario, London, Ontario, Canada N6A 3K7.

FOR SALE—*Auk* 1891, no. 3; 1892–93 comp.; 1894, nos. 1, 2; 1895, nos. 1, 3, 4; 1924–1942 comp.; 1944, nos. 1, 3, 4; 1945, no. 3. Make offer. Nelson D. Hoy, R.D. 1, Paxon Hollow Road, Media, Pennsylvania.

FOR SALE—"Pictorial Guide to the Birds of North America." L. L. Rue, 1970. \$8. "The Prairie Horned Lark" by G. B. Pickwell, 1931. \$3. "The Birds of

Avian Anatomy, Integument. Parts I and II.—Alfred M. Lucas and Peter R. Stettenheim. 1972. Agriculture Handbook 362. U. S. Govt. Printing Office, Washington, D. C. 20402. 750 p. \$13.00 per 2 part set. This is one of a ten volume series on the anatomy of laboratory birds. Due to its large size, it has been published in two parts. It is intended to be an accurate detailed reference based on studies of the integument of the chicken, turkey, duck, *Coturnix* quail, and domestic pigeon. The general topics covered include a description of the parts of the avian body, pterylosis, molts and plumages, feather structure, growth and color of feathers, associated musculature, microscopic structure of the skin and its derivatives, and techniques for studies of the integument. Each topic is introduced by a chapter or section covering general aspects, descriptions, and terms so that, while laboratory birds are discussed in detail, the text should be useful to anyone seeking details on avian integument. The authors intend it to be used as a reference book for the associated disciplines of the poultry, medical, and zoological sciences as well as for authors of scientific texts.

Familiar Birds of Northwest Forests, Fields and Gardens.—David B. Marshall. 1973. Portland Audubon Society, Portland, Oregon. 84 p. \$2.50 (paperbound). Written in a somewhat poetic style by a veteran birdwatcher and a biologist, this booklet is intended to serve as both an aid to beginning birders in Oregon and Washington west of the Cascade Range and a supplement to the various field guides. It is illustrated with the beautiful color paintings by R. B. Horsfall which originally appeared in the out of print *Birds of the Pacific Coast*, with additions by Z. M. Schultz. Without being redundant to field guides, the text describes characteristics of plumage, behavior, habitat, and vocalizations which are both aids in identification and items of general interest.

Birds of Pennsylvania.—Merrill Wood. 1973. Penn. State Univ., Univ. Park, 103 p. \$2.00 (paperbound). This is an annotated species list of birds in Pennsylvania with information on abundance, seasonal occurrence, habits, status changes, and summer and winter ranges. Line drawings of 186 of the more common birds are included along the margins of the text.

Crater Lake National Park" by D. S. Farner, 1952. \$3. "Migration of Birds" by F. C. Lincoln, 1950. \$2. M. M. Watson, 2215 Empire Grade, Santa Cruz, Calif. 95060.

FOR SALE—*Condor*, complete except for Vol. 7; Vols. 4–5 and 8–12 bound. \$350.00. Also *Bird-Banding*, Vols. 13 and 17–42. \$100.00. Shipping extra. Gale Monson, Box 5607, Tucson, Arizona 85703.

FOR SALE—"The Game Birds of California" by Grinnell, Bryant, and Storer. 1918. Univ. California, Berkeley. Good condition in original jacket, \$75. Mrs. Jean Twohig, 3550 W. Amazon Dr. #7, Eugene, Oregon 97405.