



## BOOK REVIEW

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## BOOK REVIEW

### AVIAN ANATOMY — INTEGUMENT.

ALFRED M. LUCAS and PETER R. STETTENHEIM. AGRICULTURAL HANDBOOK 362 (1972).

PARTS I and III. 750 PP., 442 ILLUS., U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402.

For sale by: Superintendent of Documents; price, \$13.00 per set in the United States, its possessions, Canada, Mexico and all Central and South American countries.

This work is the most productive result of years of cooperative effort between the U.S.D.A. and Michigan State University. Perhaps some will recall similar sponsored efforts: Atlas of Avian Anatomy - Osteology - Arthrology - Myology by F. W. Chamberlain (1943), and Atlas of Avian Hematology by A. M. Lucas and C. Jamroz (1961).

As most wildlife disease workers know, it is difficult to assemble broad references within a single text. Unfortunately both the title and designation as an "Agriculture Handbook" are misleading, limiting characterization of this broad excellent detailed reference related to birds. This collection of finite information is of great value to scientists, such as wildlife disease workers, concerned with the details of avian anatomy, and is of lesser value to those concerned with broad more limited considerations. In addition, there are many bonus features unrelated to skin anatomy that include such techniques as avian anesthesia, processing avian specimens for study, and drawing. Included are over 900 references related to both birds and reptiles, an extensive index, a classification list of birds, and latin-English equivalents for terms employed. All of the above would have great value to the wildlife disease worker concerned with avian species.

The general discussion within the text applies equally well to both wild or domestic avian species. Such topics as the anatomy of the skin and feathers, their development and coloration, pterylosis, ptilosis, molting are presented to have application to all avian species. While the examples cited emphasize domestic species, wild species are often included under the heading of "other species".

This reference is a valuable tool for avian wildlife disease workers, as well as poultry scientists, anatomists, histologists, physiologists, pathologists, ornithologists and other researchers concerned with wild, domestic, or captive birds. For these workers it is one of the rare book values today.

Louis Leibovitz

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## BOOK REVIEW

### THE COCCIDIA EIMERIA, ISOSPORA, TOXOPLASMA AND RELATED GENERA.

EDITED BY DATUS M. HAMMOND WITH PETER L. LONG, UNIVERSITY PARK PRESS,  
BALTIMORE AND BUTTERWORTHS, LONDON. 1973. 482 PPS. PRICE \$24.50.

This volume is the collaborative work of ten noted research workers in Europe and the United States who have devoted many years to studying various aspects of Coccidiosis and Toxoplasmosis; it is edited by Datus M. Hammond of Utah State University, and Peter L. Long of the Houghton Poultry Research Station, Huntington, England.

In this edition various aspects of the biology of these two parasites are explored: taxonomy, host specificity, life cycles, ultrastructure, biochemistry, embryo and tissue culture, pathology, immunity, and techniques. The presence of excellent photographic reproductions and line drawings, and an extensive bibliography at the end of each chapter make this book an invaluable teaching and research tool, and will serve to make zoologists and medical-veterinary research workers more aware of recent knowledge about these parasites.

What might have improved the volume would be a chapter discussing some of the larger more "philosophical issues" of these protozoan parasites such as: why does coccidiosis so rarely cause disease in animal populations under natural conditions; is the pathology of these parasites the result of intensive human intervention in livestock genetics, population density and housing conditions; what is the evolutionary significance of oocyst structure, tissue reproduction, and epizootology in various aquatic and terrestrial vertebrates, and are biological control techniques feasible? Although these suggested areas for discussion may appeal more to an ecologist oriented toward field studies than to those in the laboratory, nonetheless a short discussion of these yet to be researched issues would help to encourage a better perspective for future workers with various zoological and medical backgrounds entering the field.

A few minor technical errors can be noted, but these are of little consequence and do not detract from the utility of the volume.

In summary, this book is a scholarly work which will be of great utility for those both entering and already working with these parasitic organisms.

R. S. Dorney, Professor  
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## NEW BOOK

### **RADIONUCLIDES IN ECOSYSTEMS, PROCEEDINGS OF THE THIRD NATIONAL SYMPOSIUM.**

D. J. NELSON, ED. NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VA 22151.  
XVI + 1268 PP. \$27.20. U.S.A.E.C. CONF-710501-P1, -P2. (2 VOLS.).

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## Editor in Africa

As many contributors to the journal have discovered, the editor has been located at the Veterinary Research Laboratory, Kabete, Kenya, since September, 1972. During this time, to facilitate handling and processing of journal mail, most of which originates in North America, the editor's address has been published in the Journal as the Department of Pathology, University of Guelph, Canada. For those who have corresponded directly, please note that **NO JOURNAL MAIL SHOULD BE SENT TO THE KENYA ADDRESS AFTER MAY, 1974**, as the editor will be enroute to resume his position at Guelph.

During the period 1972 - 1974 the burden of receiving and acknowledging receipt of manuscripts, sending manuscripts out to reviewers, and last-minute reviews of press proofs has been carried by editorial board member, Dr. Joan Budd. Dr. Budd has really done the work of an editor, without adequate appreciation for her work, since it has been unannounced and behind the scenes. For her help the Editorial Board, but particularly the Editor, is sincerely grateful!

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## GRADUATE TRAINING IN FISH AND WILDLIFE DISEASES\*

JOHN G. DEBBIE<sup>[1]</sup> and JOAN BUDD<sup>[2]</sup>

### **TRAINING IN WILDLIFE DISEASES**

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\* In addition to those published Jour. Wildl. Dis. 9 (3): 265, 1973.

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